



**2 ~ 4 hours**  
Recommended Solution

**0 ~ 40°C**  
Recommended Operating  
Ambient Temperature

# Small-Scale C&I Outdoor Energy Storage Solution

## BOS-G55-Cabinet

## BOS-G Pro

### BOS-G55-Cabinet



#### Durable & Long-Lasting

- ◎ IP55 waterproof and C4 corrosion resistant, built to last over 10 years



#### Environmentally Friendly

- ◎ Free of heavy metals and non-polluting to the environment



#### Flexible

- ◎ Standard prefabricated cabinet for flexible on-demand deployment, suitable for multiple application scenarios

### BOS-G Pro



#### Convenient

- ◎ Quick installation standard of 19-inch embedded designed module is comfortable for installation and maintenance.



#### Intelligent BMS

- ◎ It has protection functions including over-discharge, over-charge, over-current and over-high or low temperature. The system can automatically manage charge and discharge state and balance current and voltage of each cell.



#### Eco-friendly

- ◎ The whole module is non-toxic, non-polluting and environmentally friendly



#### Safe and reliable

- ◎ Cathode material is made from LiFePO4 with safety performance and long cycle life, The module has less self-discharge, up to 6 months without charging it on shelf, no memory effect, excellent performance of shallow charge and discharge.
- ◎ Support Aerosol fire extinguishing



#### Flexible configuration

- ◎ Multiple battery modules can be in parallel for expanding capacity and power. Support USB upgrade, remote up grade(Compatible with Deye inverter).



#### Wide temperature

- ◎ Working temperature range is from -20°C to 55°C, with excellent discharge performance and cycle life.

# Small-Scale C&I Energy Storage Solution

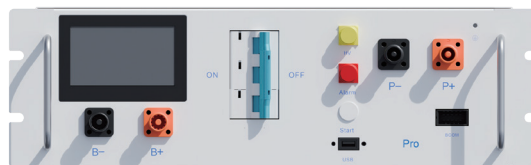
## Model

## BOS-G-PDU-2

### BOS-G-PDU-2

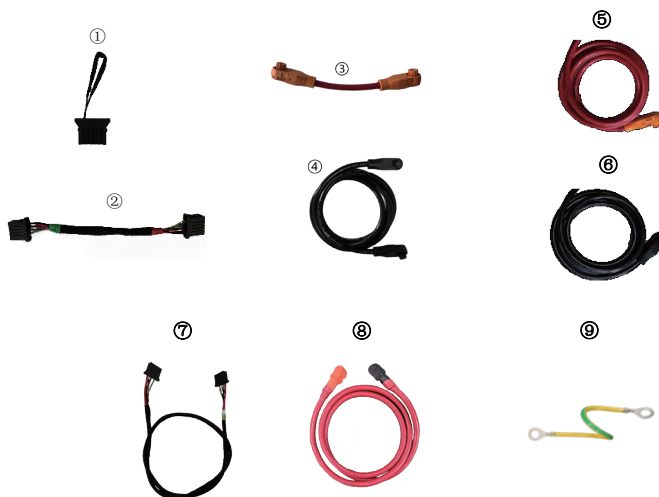
High Voltage Battery cluster control box conforming to European or British Standards

|                                  |                |
|----------------------------------|----------------|
| Operating Voltage                | 200 ~ 1000Vdc  |
| Nominal Charge/Discharge Current | 100A           |
| Max.Charge/Discharge Current     | 120A           |
| DC Input Rating                  | 12±2%V / 4.15A |
| Operating Temperature Range      | -20 ~ 65°C     |
| Ingress Protection               | IP20           |
| Dimension ( W×D×H )              | 440×570×150mm  |
| Weight Approximate               | 19kg           |



High voltage box Standard configuration:

- ① 120 ohm terminal resistance
- ② 250mm communication cable
- ③ 140mm power cable
- ④ 2.1m power cable
- ⑤ EPCable2.0  
(Standard 2-meter power cable connected to the positive pole of the external PCS)
- ⑥ ENCable2.0  
(Standard 2-meter power cable connected to the negative pole of the external PCS)
- ⑦ 1000mm communication cable between two battery racks
- ⑧ 1000mm power cable between the two battery racks
- ⑨ 140 mm ground wire



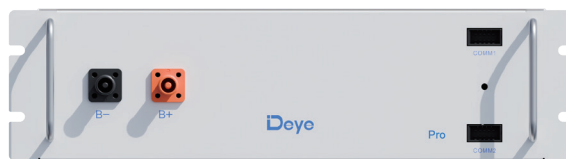
## Model

## BOS-G-Pack5.1

### BOS-G-Pack5.1

5.12 kwh battery module

|                                  |                           |
|----------------------------------|---------------------------|
| Battery Type                     | LiFePO <sub>4</sub> (LFP) |
| Nominal Voltage                  | 51.2Vdc                   |
| Rated Capacity                   | 100Ah                     |
| Rated Energy                     | 5.12kWh                   |
| Nominal Charge/Discharge Current | 100A                      |
| Peak.Discharge Current           | 120A                      |
| Charge Temperature               | 0 ~ 55°C                  |
| Discharge Temperature            | -20°C ~ 55°C              |
| Storage Temperature              | 0°C ~ 35°C                |
| Ingress Protection               | IP20                      |
| Dimension ( W×D×H )              | 440×585×133mm             |
| Weight Approximate               | 46kg                      |



Battery module Standard configuration:

- ① 160mm communication cable
- ② 200mm power cable

# Outdoor Cabinet Accessories



| Model                                            | BOS-G55-Cabinet                           |
|--------------------------------------------------|-------------------------------------------|
| IP Rating of Enclosure                           | IP55                                      |
| Bearing Capacity                                 | Max.525kg                                 |
| Weight Approximate                               | ≈170kg                                    |
| Dimension (W×D×H)                                | 1170×750×1245                             |
| Altitude                                         | ≤3000m                                    |
| Recommended Operating Temperature <sup>[1]</sup> | Charge : 0 ~ 55°C; Discharge : -20 ~ 55°C |
| Warranty                                         | 10 years                                  |
| Color                                            | White (RAL9016)                           |
| Material                                         | SGCC                                      |
| Applicable to the Product <sup>[2]</sup>         | BOS-G, BOS-G Pro                          |

[1] Recommended System Operating Conditions: Max 0.5C Charging & Discharging, 25°C, 90% DOD, 70%EOL;  
Recommended Environmental Conditions: Outdoor open air installation; avoid areas with strong corrosive gas, heavy salt spray, severe vibration and flood prone locations.

[2] Accommodates max. 1×HVB750V/100A-EU + 11×BOS-GM5.1 or 1×BOS-G-PDU-2 + 11×BOS-G-Pack5.1

| Model | BOS-G55-Cabinet-AP-A |
|-------|----------------------|
|-------|----------------------|

|         |                                                      |
|---------|------------------------------------------------------|
| Details | For BOS-G to interface with SUN-5~25K-SG01HP3-EU-AM2 |
|---------|------------------------------------------------------|

| Model | BOS-G55-Cabinet-AP-B |
|-------|----------------------|
|-------|----------------------|

|         |                                                          |
|---------|----------------------------------------------------------|
| Details | For BOS-G Pro to interface with SUN-5~25K-SG01HP3-EU-AM2 |
|---------|----------------------------------------------------------|

| Model | BOS-G55-Cabinet-AP-C |
|-------|----------------------|
|-------|----------------------|

|         |                                                                                                                                                              |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Details | For parallel bus bar connection of 2 BOS-G (BOS-G Pro) strings to SUN-5~25K-SG01HP3-EU-AM2 inverter (pre-cabled for additional circuit breaker installation) |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|

Small-Scale C&I Energy Storage Solution



ModelBOS-G-Pro

Main Parameter

|                                           |                                                                     |             |             |             |                  |             |             |             |                   |             |             |             |     |
|-------------------------------------------|---------------------------------------------------------------------|-------------|-------------|-------------|------------------|-------------|-------------|-------------|-------------------|-------------|-------------|-------------|-----|
| Cell Chemistry                            | LiFePO <sub>4</sub>                                                 |             |             |             |                  |             |             |             |                   |             |             |             |     |
| Module Energy ( kWh )                     | 5.12                                                                |             |             |             |                  |             |             |             |                   |             |             |             |     |
| Module Nominal Voltage ( V )              | 51.2                                                                |             |             |             |                  |             |             |             |                   |             |             |             |     |
| Module Capacity ( Ah )                    | 100                                                                 |             |             |             |                  |             |             |             |                   |             |             |             |     |
| Battery Module Number                     | BOS-G25-Pro                                                         | BOS-G30-Pro | BOS-G35-Pro | BOS-G40-Pro | BOS-G45-Pro      | BOS-G50-Pro | BOS-G55-Pro | BOS-G60-Pro | BOS-G65-Pro       | BOS-G70-Pro | BOS-G75-Pro | BOS-G80-Pro |     |
| Battery Module Qty In Series ( Optional ) | 5 (Min)                                                             | 6           | 7           | 8           | 9                | 10          | 11          | 12          | 13                | 14          | 15          | 16 (Max)    |     |
| System Nominal Voltage ( V )              | 256                                                                 | 307.2       | 358.4       | 409.6       | 460.8            | 512         | 563.2       | 614.4       | 665.6             | 716.8       | 768         | 819.2       |     |
| System Operating Voltage ( V )            | 220~292                                                             | 264~350.4   | 308~408.8   | 352~467.2   | 396~525.6        | 440~584     | 484~642.4   | 528~700.8   | 572~759.2         | 616~817.6   | 660~876     | 704~934.4   |     |
| System Energy ( kWh )                     | 25.6                                                                | 30.72       | 35.84       | 40.96       | 46.08            | 51.2        | 56.32       | 61.44       | 66.56             | 71.68       | 76.8        | 81.92       |     |
| System Usable Energy ( kWh ) <sup>1</sup> | 25.6                                                                | 30.72       | 35.84       | 40.96       | 46.08            | 51.2        | 56.32       | 61.44       | 66.56             | 71.68       | 76.8        | 81.92       |     |
| Rated DC Power ( kW )                     | 25.6                                                                | 30.72       | 35.84       | 40.96       | 46.08            | 51.2        | 56.32       | 61.44       | 66.56             | 71.68       | 76.8        | 81.92       |     |
| Charge / Discharge <sup>2</sup>           | Recommend                                                           |             |             |             |                  |             |             |             |                   |             |             |             |     |
|                                           | Nominal                                                             |             |             |             |                  |             |             |             |                   |             |             |             |     |
|                                           | Peak Discharge ( 2 mins, 25°C )                                     |             |             |             |                  |             |             |             |                   |             |             |             |     |
| Working Temperature (°C)                  | 50                                                                  |             |             |             |                  |             |             |             |                   |             |             |             |     |
| Status Indicator                          | 100                                                                 |             |             |             |                  |             |             |             |                   |             |             |             |     |
|                                           | 125                                                                 |             |             |             |                  |             |             |             |                   |             |             |             |     |
|                                           | Charge : 0 ~ 55 / Discharge : -20 ~ 55                              |             |             |             |                  |             |             |             |                   |             |             |             |     |
|                                           | Yellow : Battery High Voltage Power On   Red : Battery System Alarm |             |             |             |                  |             |             |             |                   |             |             |             |     |
| Communication Port                        | CAN2.0 / RS485                                                      |             |             |             |                  |             |             |             |                   |             |             |             |     |
| Humidity                                  | 5% ~ 85%RH                                                          |             |             |             |                  |             |             |             |                   |             |             |             |     |
| Altitude                                  | ≤3000m                                                              |             |             |             |                  |             |             |             |                   |             |             |             |     |
| IP Rating of Enclosure                    | IP20                                                                |             |             |             |                  |             |             |             |                   |             |             |             |     |
| Dimension (W×D×H,mm)                      | 530 × 602 × 1629                                                    |             |             |             | 530 × 602 × 2219 |             |             |             | 1060 × 602 × 1629 |             |             |             |     |
| Weight Approximate (kg)                   | 290                                                                 | 336         | 382         | 428         | 484              | 530         | 576         | 622         | 699               | 745         | 791         | 837         | 883 |
| Installation Location                     | Rack Mounting                                                       |             |             |             |                  |             |             |             |                   |             |             |             |     |
| Storage Temperature (°C)                  | 0 ~ 35                                                              |             |             |             |                  |             |             |             |                   |             |             |             |     |
| Recommend Depth of Discharge              | 100%                                                                |             |             |             |                  |             |             |             |                   |             |             |             |     |
| Cycle Life                                | 25±2°C, 0.5C / 0.5C, EOL70%≥6000                                    |             |             |             |                  |             |             |             |                   |             |             |             |     |
| Warranty <sup>3</sup>                     | 10 years                                                            |             |             |             |                  |             |             |             |                   |             |             |             |     |
| Certification                             | UN38.3 / CE / CE-EMC / IEC62040 / CEC / VDE                         |             |             |             |                  |             |             |             |                   |             |             |             |     |

1. DC Usable Energy, test conditions : 100% DOD, 0.3C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.
2. The current is affected by temperature and SOC.
3. The warranty is due whichever reached first of warranty period or life cycle power.
4. Made in China.

| Model                                              | SUN-10K-SG01<br>HP3-AU-AM2                                                                                                                                                                                                                                                                                                                                     | SUN-12K-SG01<br>HP3-AU-AM2 | SUN-15K-SG01<br>HP3-AU-AM2 | SUN-20K-SG01<br>HP3-AU-AM2 | SUN-25K-SG01<br>HP3-AU-AM2 |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| Battery Type                                       | Lithium-ion                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |                            |
| Battery Voltage Range (V)                          | 160-700                                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Max. Charging/Discharging Current (A)              | 37                                                                                                                                                                                                                                                                                                                                                             |                            |                            |                            | 50                         |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                                           |                            |                            |                            |                            |
| Number of Battery Input                            | 1                                                                                                                                                                                                                                                                                                                                                              |                            |                            |                            |                            |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| Max. PV access power (W)                           | 20000                                                                                                                                                                                                                                                                                                                                                          | 24000                      | 30000                      | 40000                      | 50000                      |
| Max. PV Input Power (W)                            | 15000                                                                                                                                                                                                                                                                                                                                                          | 18000                      | 22500                      | 30000                      | 37500                      |
| Max. PV Input Voltage (V)                          | 1000                                                                                                                                                                                                                                                                                                                                                           |                            |                            |                            |                            |
| Start-up Voltage (V)                               | 180                                                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |                            |
| MPPT Voltage Range (V)                             | 150-850                                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Rated PV Input Voltage (V)                         | 600                                                                                                                                                                                                                                                                                                                                                            |                            |                            |                            | 700                        |
| Max. Operating PV Input Current (A)                | 20+20                                                                                                                                                                                                                                                                                                                                                          | 26+20                      |                            | 26+26                      |                            |
| Max. Input Short-Circuit Current (A)               | 30+30                                                                                                                                                                                                                                                                                                                                                          | 39+30                      |                            | 39+39                      |                            |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 2/1+1                                                                                                                                                                                                                                                                                                                                                          | 2/2+1                      |                            | 2/2+2                      |                            |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| Rated AC Input/Output Active Power (W)             | 9999                                                                                                                                                                                                                                                                                                                                                           | 12000                      | 15000                      | 20000                      | 25000                      |
| Rated/Max. AC Input/Output Apparent Power (VA)     | 9999                                                                                                                                                                                                                                                                                                                                                           | 12000                      | 15000                      | 20000                      | 25000                      |
| Rated AC Input/Output Current (A)                  | 14.5                                                                                                                                                                                                                                                                                                                                                           | 17.4                       | 21.8                       | 29.0                       | 36.3                       |
| Max. AC Input/Output Current (A)                   | 14.5                                                                                                                                                                                                                                                                                                                                                           | 17.4                       | 21.8                       | 29.0                       | 36.3                       |
| Max. Continuous AC Passthrough (grid to load) (A)  | 40                                                                                                                                                                                                                                                                                                                                                             | 80                         |                            |                            |                            |
| Peak Power (off-grid) (W)                          | 1.5 times of rated power, 10s                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |                            |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                                                     |                            |                            |                            |                            |
| Rated input/output voltage                         | 230/400V 240/415V 0.85Un-1.1Un 3L+N+PE                                                                                                                                                                                                                                                                                                                         |                            |                            |                            |                            |
| Rated Input/Output Grid Frequency/Range(Hz)        | 50/45-55, 60/55-65                                                                                                                                                                                                                                                                                                                                             |                            |                            |                            |                            |
| Total Current Harmonic Distortion THDi             | <3% (of nominal power)                                                                                                                                                                                                                                                                                                                                         |                            |                            |                            |                            |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                                                       |                            |                            |                            |                            |
| Generator Data                                     |                                                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| Nominal Input Voltage (V)                          | 230/400V, 240/415V                                                                                                                                                                                                                                                                                                                                             |                            |                            |                            |                            |
| Rated Input Current (A)                            | 40                                                                                                                                                                                                                                                                                                                                                             | 80                         |                            |                            |                            |
| Power Factor                                       | 0.8 leading-0.8 lagging                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Frequency                                          | 50Hz                                                                                                                                                                                                                                                                                                                                                           |                            |                            |                            |                            |
| Backup Data                                        |                                                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| Nominal Output Voltage (V)                         | 230/400V,240/415V                                                                                                                                                                                                                                                                                                                                              |                            |                            |                            |                            |
| Rated Output Current (A)                           | 14.5                                                                                                                                                                                                                                                                                                                                                           | 17.4                       | 21.8                       | 29.0                       | 36.3                       |
| Rated Apparent Power (VA)                          | 10000                                                                                                                                                                                                                                                                                                                                                          | 12000                      | 15000                      | 20000                      | 25000                      |
| Power Factor                                       | 0.8 leading-0.8 lagging                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Frequency                                          | 50Hz                                                                                                                                                                                                                                                                                                                                                           |                            |                            |                            |                            |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| Max. Efficiency                                    | 97.6%                                                                                                                                                                                                                                                                                                                                                          |                            |                            |                            |                            |
| Euro Efficiency                                    | 97.0%                                                                                                                                                                                                                                                                                                                                                          |                            |                            |                            |                            |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                                           |                            |                            |                            |                            |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection(Active Frequency shift), DC Switch, Insulation Impedance Detection, Residual Current Detection |                            |                            |                            |                            |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                                                       |                            |                            |                            |                            |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| LCD/LED Display                                    | LCD                                                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |                            |
| Communication Interface                            | WiFi, RS485, CAN                                                                                                                                                                                                                                                                                                                                               |                            |                            |                            |                            |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                                                   |                            |                            |                            |                            |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                                         |                            |                            |                            |                            |
| Permissible Altitude                               | 2000m                                                                                                                                                                                                                                                                                                                                                          |                            |                            |                            |                            |
| Noise (dB)                                         | ≤55                                                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |                            |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                                                                                                                          |                            |                            |                            |                            |
| Protection Level                                   | Class I                                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Inverter Topology                                  | Non-Isolated                                                                                                                                                                                                                                                                                                                                                   |                            |                            |                            |                            |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Cabinet Size (WxHxD mm)                            | 408×638×237 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                                                |                            |                            |                            |                            |
| Weight (kg)                                        | 30.5                                                                                                                                                                                                                                                                                                                                                           |                            |                            |                            |                            |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |                            |
| Warranty                                           | 10 Years                                                                                                                                                                                                                                                                                                                                                       |                            |                            |                            |                            |
| Grid Regulation                                    | AS/NZS 4777.2                                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |                            |
| Safety / EMC Standard                              | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                                         |                            |                            |                            |                            |

# C&I ESS Solution

| Model                                              | SUN-29.9K-SG01HP3<br>-AU-BM3                                                                                                                                                                                                                                                                                                                                   | SUN-35K-SG01HP3<br>-AU-BM3 | SUN-40K-SG01HP3<br>-AU-BM4 | SUN-50K-SG01HP3<br>-AU-BM4 |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------|----------------------------|
| Battery Input Data                                 |                                                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |
| Battery Type                                       | Lithium-ion                                                                                                                                                                                                                                                                                                                                                    |                            |                            |                            |
| Battery Voltage Range (V)                          | 160-800                                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Max. Charging/Discharging Current (A)              | 50+50                                                                                                                                                                                                                                                                                                                                                          |                            |                            |                            |
| Charging Strategy for Li-ion Battery               | Self-adaption to BMS                                                                                                                                                                                                                                                                                                                                           |                            |                            |                            |
| Number of Battery Input                            | 2                                                                                                                                                                                                                                                                                                                                                              |                            |                            |                            |
| PV String Input Data                               |                                                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |
| Max. PV access power (W)                           | 50000                                                                                                                                                                                                                                                                                                                                                          | 70000                      | 80000                      | 100000                     |
| Max. PV Input Power (W)                            | 44850                                                                                                                                                                                                                                                                                                                                                          | 52500                      | 60000                      | 75000                      |
| Max. PV Input Voltage (V)                          | 1000                                                                                                                                                                                                                                                                                                                                                           |                            |                            |                            |
| Start-up Voltage (V)                               | 180                                                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |
| MPPT Voltage Range (V)                             | 150-850                                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Rated PV Input Voltage (V)                         | 600                                                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |
| Max. Operating PV Input Current (A)                | 36+36+36                                                                                                                                                                                                                                                                                                                                                       |                            | 36+36+36+36                |                            |
| Max. Input Short-Circuit Current (A)               | 55+55+55                                                                                                                                                                                                                                                                                                                                                       |                            | 55+55+55+55                |                            |
| No. of MPP Trackers/<br>No. of Strings MPP Tracker | 3/2+2+2                                                                                                                                                                                                                                                                                                                                                        |                            | 4/2+2+2+2                  |                            |
| AC Input/Output Data                               |                                                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |
| Rated AC Input/Output Active Power (W)             | 29900                                                                                                                                                                                                                                                                                                                                                          | 35000                      | 40000                      | 50000                      |
| Max. AC Input/Output Apparent Power (VA)           | 29900                                                                                                                                                                                                                                                                                                                                                          | 35000                      | 40000                      | 50000                      |
| Rated AC Input/Output Current (A)                  | 43.4                                                                                                                                                                                                                                                                                                                                                           | 50.8                       | 58                         | 72.5                       |
| Max. AC Input/Output Current (A)                   | 43.4                                                                                                                                                                                                                                                                                                                                                           | 50.8                       | 58                         | 72.5                       |
| Max. Continuous AC Passthrough (grid to load) (A)  | 200                                                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |
| Peak Power (off-grid) (W)                          | 1.5 times of rated power, 10s                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |
| Power Factor Adjustment Range                      | 0.8 leading to 0.8 lagging                                                                                                                                                                                                                                                                                                                                     |                            |                            |                            |
| Rated input/output voltage                         | 230/400V                                                                                                                                                                                                                                                                                                                                                       | 240/415V                   | 0.85Un-1.1Un               | 3L+N+PE                    |
| Rated Input/Output Grid Frequency/Range(Hz)        | 50/45-55                                                                                                                                                                                                                                                                                                                                                       |                            |                            |                            |
| Total Current Harmonic Distortion THDi             | <3% (of nominal power)                                                                                                                                                                                                                                                                                                                                         |                            |                            |                            |
| DC Injection Current                               | <0.5% In                                                                                                                                                                                                                                                                                                                                                       |                            |                            |                            |
| Efficiency                                         |                                                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |
| Max. Efficiency                                    | 97.6%                                                                                                                                                                                                                                                                                                                                                          |                            |                            |                            |
| Euro Efficiency                                    | 97.0%                                                                                                                                                                                                                                                                                                                                                          |                            |                            |                            |
| MPPT Efficiency                                    | >99%                                                                                                                                                                                                                                                                                                                                                           |                            |                            |                            |
| Equipment Protection                               |                                                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |
| Integrated                                         | DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection(Active Frequency shift), DC Switch, Insulation Impedance Detection, Residual Current Detection |                            |                            |                            |
| Surge Protection Level                             | TYPE II(DC), TYPE II(AC)                                                                                                                                                                                                                                                                                                                                       |                            |                            |                            |
| Interface                                          |                                                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |
| LCD/LED Display                                    | LCD                                                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |
| Communication Interface                            | WIFI,RS485,CAN                                                                                                                                                                                                                                                                                                                                                 |                            |                            |                            |
| General Data                                       |                                                                                                                                                                                                                                                                                                                                                                |                            |                            |                            |
| Operating Temperature Range (°C)                   | -40 to +60°C, >45°C Derating                                                                                                                                                                                                                                                                                                                                   |                            |                            |                            |
| Permissible Ambient Humidity                       | 0-100%                                                                                                                                                                                                                                                                                                                                                         |                            |                            |                            |
| Permissible Altitude                               | 2000m                                                                                                                                                                                                                                                                                                                                                          |                            |                            |                            |
| Noise (dB)                                         | ≤65                                                                                                                                                                                                                                                                                                                                                            |                            |                            |                            |
| Ingress Protection(IP) Rating                      | IP 65                                                                                                                                                                                                                                                                                                                                                          |                            |                            |                            |
| Protection Level                                   | Class I                                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Inverter Topology                                  | Non-Isolated                                                                                                                                                                                                                                                                                                                                                   |                            |                            |                            |
| Over Voltage Category                              | OVC II(DC), OVC III(AC)                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Cabinet Size (WxHxD mm)                            | 527×894×294 (Excluding Connectors and Brackets)                                                                                                                                                                                                                                                                                                                |                            |                            |                            |
| Weight (kg)                                        | 80                                                                                                                                                                                                                                                                                                                                                             |                            |                            |                            |
| Type of Cooling                                    | Intelligent Air Cooling                                                                                                                                                                                                                                                                                                                                        |                            |                            |                            |
| Warranty                                           | 10 Years                                                                                                                                                                                                                                                                                                                                                       |                            |                            |                            |
| Grid Regulation                                    | AS/NZS 4777.2                                                                                                                                                                                                                                                                                                                                                  |                            |                            |                            |
| Safety / EMC Standard                              | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2                                                                                                                                                                                                                                                                                                         |                            |                            |                            |

# Small-Scale C&I Energy Storage Solution

## Typical Application Scenarios

| Solution | Inverter model           | Batteries Configuration | Outdoor Cabinet Configuration | Other Accessories    |
|----------|--------------------------|-------------------------|-------------------------------|----------------------|
| 2h       | SUN-25K-SG01HP3-AU-AM2   | BOS-G55 Pro             | BOS-G55-Cabinet*1             | BOS-G55-Cabinet-AP-B |
|          | SUN-25K-SG02HP3-AU-AM3   | BOS-G55 Pro             | BOS-G55-Cabinet*1             | /                    |
|          | SUN-25K-SG01HP3-AU-AM2   | BOS-G50 Pro             | BOS-G55-Cabinet*1             | BOS-G55-Cabinet-AP-B |
|          | SUN-25K-SG02HP3-AU-AM3   | BOS-G50 Pro             | BOS-G55-Cabinet*1             | /                    |
| 3h       | SUN-29.9K-SG01HP3-AU-BM3 | BOS-G45 Pro*2           | BOS-G55-Cabinet*2             | /                    |
|          | SUN-35K-SG01HP3-AU-BM3   | BOS-G50 Pro+BOS-G55 Pro | BOS-G55-Cabinet*2             | /                    |
| 4h       | SUN-25K-SG01HP3-AU-AM2   | BOS-G50 Pro+BOS-G50 Pro | BOS-G55-Cabinet*2             | BOS-G55-Cabinet-AP-C |
|          | SUN-12K-SG01HP3-AU-AM2   | BOS-G50 Pro             | BOS-G55-Cabinet*1             | BOS-G55-Cabinet-AP-B |
|          | SUN-10K-SG01HP3-AU-AM2   | BOS-G40 Pro             | BOS-G55-Cabinet*1             | BOS-G55-Cabinet-AP-B |

# Deye Cloud

## All-in-one Energy & Device Management Platform



Unlock significant savings



Individual Add-on for dynamic tariff



Intelligent charging/discharging strategies



Tailored solution to deye devices



Real-time equipment monitoring

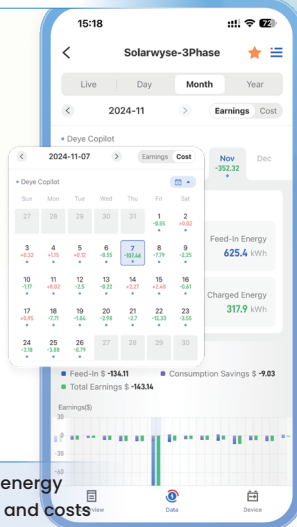


Best energy scheduling solutions by Deye Copilot algorithm



24/7 AI Assistant support

Switch flexibly  
between autonomous  
and manual control



Display energy  
savings and costs



Support dynamic  
tariff and flat-rate

### AI Assistant



Offer response suggestions  
and personalized support  
experience

Support over 30  
languages

Analyze dynamic pricing, predict power  
load and PV generation to optimize energy  
dispatch and minimize electricity costs



Deye Copilot  
ToU



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### Accelerated Connection

Optimized for speed  
and  
performance



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sovereignty and  
compliance in EU &  
US



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analysis and control



### AI Assistant

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efficient, in your  
language