



Integrated

Outdoor Solar Power System

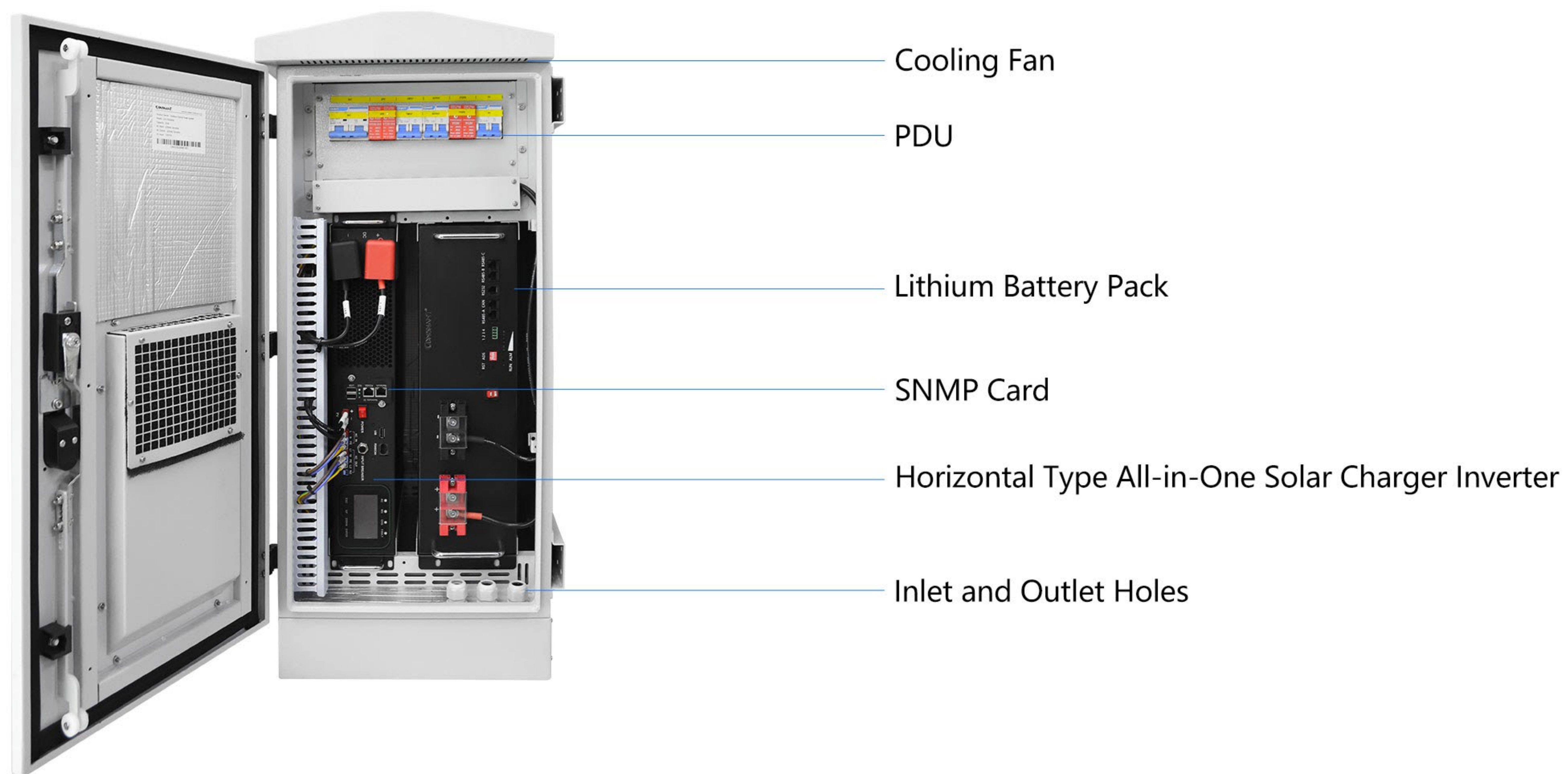
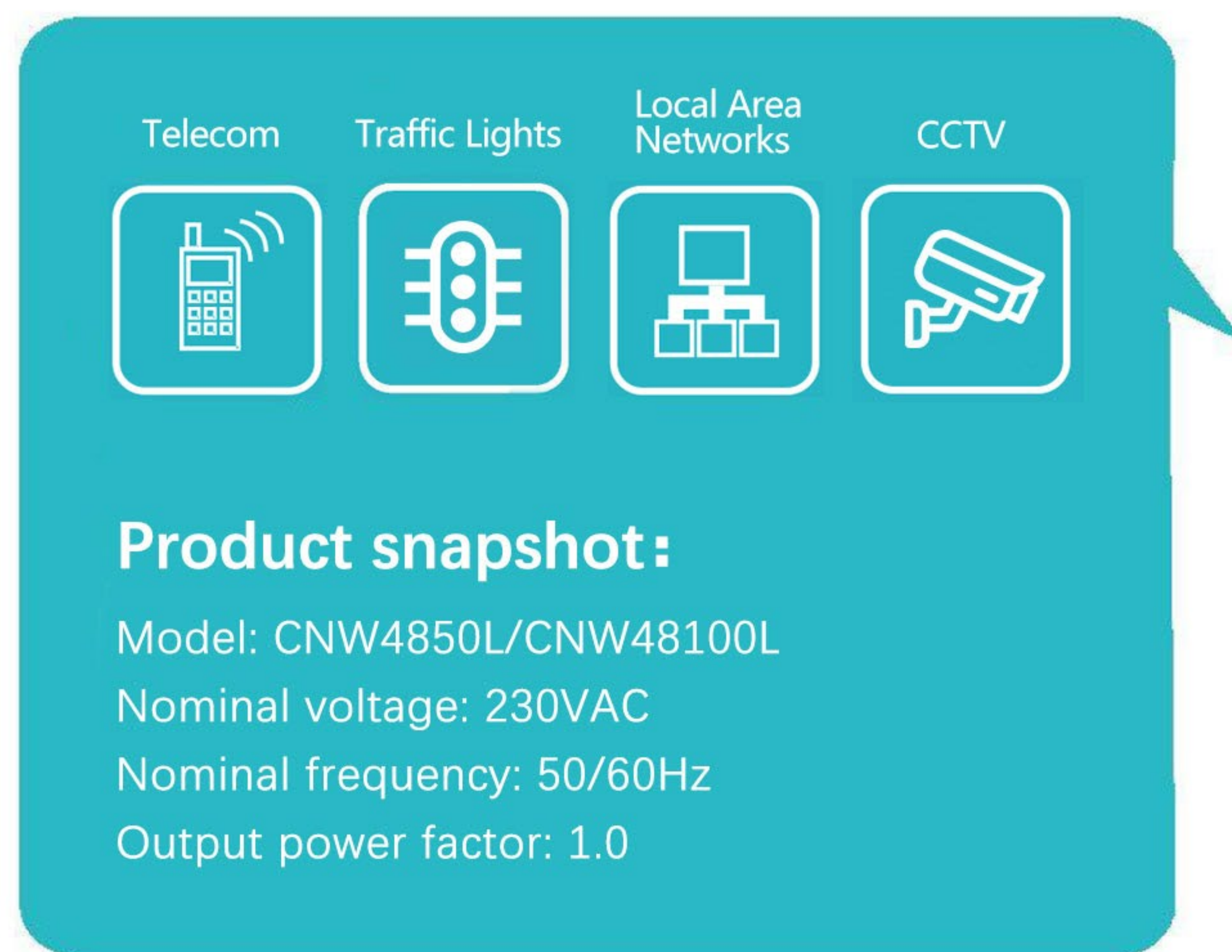
6KW

CNW4850L/CNW48100L Series

GREEN
ENERGY SAVING
ENVIRONMENTAL
PROTECTION

Integrated Outdoor Solar Power System

CNW4850L/CNW48100L Series



Environmental Adaptability

- Wide input voltage range, avoiding frequent switching to battery power supply due to excessive power grid voltage, reducing battery failure probability, to adapt to the power environment in poor areas.
- The system is commonly used in corners of the city, remote roads, mountains, bad environments such as dust, moisture, rain, mist-erosion, and areas with very poor power quality.

CNW4850L/CNW48100L SERIES

Key Feature

- It adopts full-digital double closed-loop control combined with advanced SPWM technology to output pure sine waves.
- Two output modes: mains electricity bypass and inverter output, to offer uninterrupted power supply.
- Four charging modes: PV Only, Mains Electricity Priority, PV Priority, and PV&Mains Electricity Hybrid Charging.
- Advanced MPPT technology with 99.9% efficiency.
- Equipped with a LCD display and 3 LED indicators that can clearly indicate the status and data.
- Power saving mode, reducing no-load loss.



- Intelligent variable speed fan to efficiently dissipate heat and extend system lifespan.
- It has two lithium battery activation modes: mains and PV, and supports lithium battery access.
- All-round protection for solar panels including overload and short circuit protection, under-voltage and over-voltage protection, and reverse polarity protection.
- With sun protection, heat insulation, and roof ventilation.
- With waterproof and filtration dust inlets.
- The cabinet body is designed at the IP55 protection level. The front door of the cabinet is designed with waterproof shutters, and the back is welded to the outdoor cabinet.
- Modular design makes it easy to maintain.
- System is equipped with AC and DC lightning protection.

TECHNICAL SPECIFICATIONS

Model	CNW4850L/CNW48100L-6KW
Inverter	
Output format	L+N+PE
Rated output power	6000W
Rated output voltage	220Vac/230Vac/240Vac±5%
Power factor	1.0
Output frequency range	50/60Hz±0.1%
Overload capacity (battery mode)	1min@102%~120% Load; 10s@>120% Load
Harmonic distortion	≤3% (Linear load)
Peak efficiency	>94%
Transfer time	10ms,20ms (Typical)
Grid voltage regulation (battery mode)	≤±5% (within the rated load range)
AC Charge	
Max. AC charge current	120A
DC Charge	
PV input voltage range	60-500VDC
PV Max. input power	9000W
MPPT tracking voltage range	60VDC-450VDC
Max. PV charge current	120A
Battery	
Battery type	LiFePO4
Rated capacity	50Ah / 100Ah
Nominal voltage	48VDC / 51.2V
Cycle life	3500 cycles ≥80%, 25±2°C, 1C/1C, 80% DOD / >4000 cycles 80% DOD
Environment	
Humidity	20% to 95% (Non-condensing)
Altitude	Less the 2000m
Operating temperature range	-10°C ~ 50°C
Storage temperature range	-15°C ~ 60°C
Physical	
Net Weight (without battery)	69KG
Dimension: WxDxH (mm)	550x374x842
Communication interface	USB/RS232/RS485/Dry Contact /Type-B/BMS

Note: Product specifcatons are subject to change without further notice.