

Three-phase 3-wire hybrid energy storage system

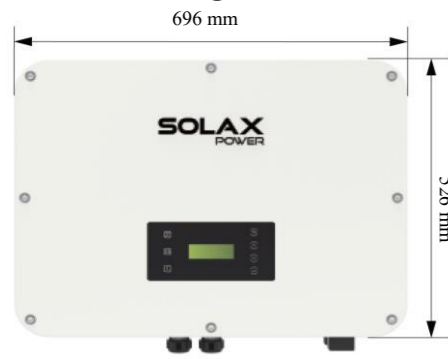


J3-ULT-LV

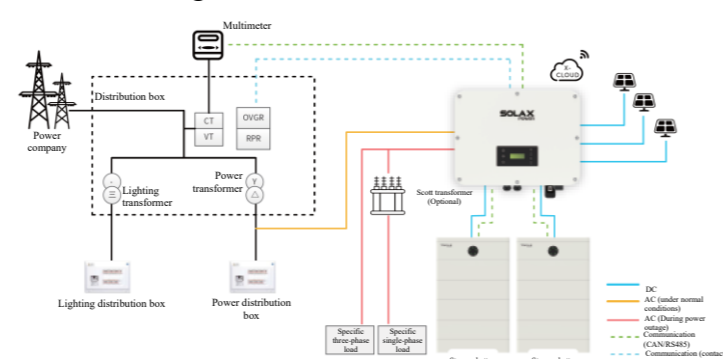
16.5K

Equipped with the storage battery
HS36/HS25/HS51

Main unit dimension diagram



Schematic diagram



Power generation efficiency

- The entire circuit (6 string groups) is compatible with MPPT
- The circuit can be divided to connect different numbers of solar panels
- No impact on other circuits, each circuit generates power independently
- Compatible with various solar modules under a wide range of input conditions
- Available to connect up to 3 roof-mounted solar panels

Security

- Compliant with Japanese standards (referencing JET system interaction standards)
- Reliable dustproof and waterproof performance (compliant with protection level IP66)
- Salt damage protection measures that can be safely used in heavy salt damage and salt-affected areas (optional accessory)
- Complies with other standards such as vibration, impact, climate, EMC, etc.

Intelligent control

- Maintenance management & operation via network with remote monitoring
- 7 days × 24 hours data monitoring and O&M (optional)
- Diverse monitoring methods, Pocket Wi-Fi/LAN (optional)
- Equipped with output control function and anti-reverse current function

Economic benefits

- Each circuit 36A can support large PV modules
- Standard configuration with MPPT 3 independent circuits for solar panel string input
- Adopts ultra-wide range specifications, allowing even small amounts of sunlight in the early morning to be effectively utilized

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Solar DC input	
Maximum input power	33kW/3 circuits
Rated input voltage	380V
Input voltage range	150-750V/circuit
MPPT voltage range	150-700V/circuit
MPPT circuit number	3 circuits
Number of components	6 (2/circuit)
Maximum input current	36A/circuit
Maximum short circuit current	45A/circuit

Other specifications	
Waterproof and dustproof level	IP66
PCS working temperature range	-35°C to 60°C (derating above 45°C)
PCS maintenance temperature range	-40°C to 70°C
Working humidity range	0-100%
Service altitude	Less than 3000 m
Noise level	< 45 dB
Surge protection level	II (AC), II (DC)
Cooling mode	Intelligent cooling
Insulation method	Transformer-free mode
External communication mode	CT/Pocket WiFi-LAN (Optional)/RS485/USB
PCS dimension	Width 696 × Depth 240 × Height 526 mm
PCS Weight	47 kg

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AC Output (during interaction)	
Power supply method	Three-phase 3-wire type
Rated voltage	AC 202V
Rated frequency	50/60HZ (Automatic recognition)
Rated output effective power	16.5kW (Power factor: 0.95)
Rated output current	47.2A

Stand-alone Output (during power outage)	
Maximum output apparent power	17.4kVA
Maximum output current	49.7A
Switching time	< 10 ms

Efficiency		
MPPT efficiency	Maximum	99.9%



TP-HS36

Stacked storage battery	
Type of battery	Lithium iron phosphate battery
Battery capacity	3.68kWh/unit
Voltage range (DC)	45V-58V
Communication mode	CAN/RS485
Reverse connection protection	Available
Storage battery operating temperature range	-30°C to 53°C
BMS dimension	Width 510 × Depth 365 × Height 157 mm
Storage battery size/unit	Width 510 × Depth 365 × Height 152 mm
Storage battery tray size	Width 510 × Depth 365 × Height 104.2 mm
BMS weight	13 kg
Storage battery weight	34 kg/unit
Storage battery tray weight	10 kg

※Product specifications are subject to upgrades and changes without prior notice.

PCS capacity	Storage battery circuit 1	Storage battery circuit 2	Total storage battery capacity	When using the storage battery combination box
16.5kW	BMS × 1 + TP-HS36 × 4	-	14.7kWh	44.1kWh
	BMS × 1 + TP-HS36 × 5	-	18.4kWh	55.2kWh
	BMS × 1 + TP-HS36 × 6	-	22.1kWh	66.3kWh
	BMS × 1 + TP-HS36 × 7	-	25.8kWh	77.4kWh
	BMS × 1 + TP-HS36 × 8	-	29.4kWh	88.2kWh
	BMS × 1 + TP-HS36 × 4	BMS × 1 + TP-HS36 × 4	29.4kWh	88.2kWh
	BMS × 1 + TP-HS36 × 5	BMS × 1 + TP-HS36 × 5	36.8kWh	110.4kWh
	BMS × 1 + TP-HS36 × 6	BMS × 1 + TP-HS36 × 6	44.2kWh	132.6kWh
BMS × 1 + TP-HS36 × 7	BMS × 1 + TP-HS36 × 7	51.5kWh	154.5kWh	
BMS × 1 + TP-HS36 × 8	BMS × 1 + TP-HS36 × 8	58.9kWh	176.7kWh	

※Up to 3 PCS units can be combined individually, and up to 10 units can be combined through a combination box. ※If you have any customized requirements, please feel free to contact us.
 ※The storage battery combination box is a retail item. For detailed information, please inquire, please feel free to contact us.

