

Industrial & Commercial Energy Storage System Solution

>> Models:

100kW 82.9kWh=N
(N stands for 2-8)



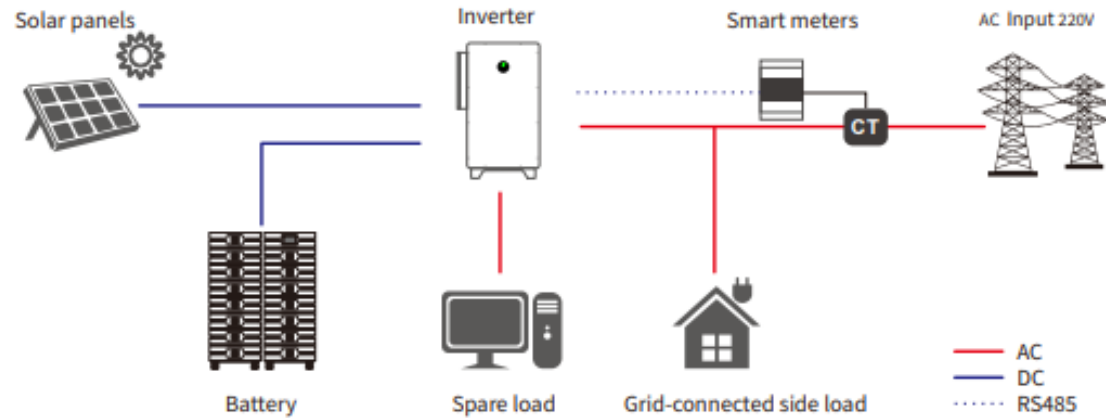
Remark

Support 3 off-grid parallel machines

UPS function > black start function, support 100% three-phase unbalanced load AC side 110% long-term overload in off-grid mode, and remote control of the generator

Multi-channel MPPT input, adaptable to complex scenes

Grid support function



Model		82.9kWh SSLBs Cluster
Battery Module	Cell type	Solid-state Battery 3.2V/54Ah
	Battery pack configuration	5.53kWh / 2P16S
Battery Cluster	Total energy	82.5kWh
	Rated voltage	768V
	Battery voltage range	672~876V
	Number of battery modules	15
	Number of BMS	BCU*1, BMU*15
	Charge/discharge rate	1C
	Cell cycle times	≥80%@6000times
	Communication interface	CAN/RS485
	Protection class	IP20
	Operating temperature	Charge: 0°C~55°C; Discharge: -20°C~55°C
	Altitude	2000m
	Temperature control method	Integrated fan
	Fire protection system	Aerosols / Perfluorohexanone
	Weight	800kg

Model		100 kW Hybrid Photovoltaic Inverter
Input Data (PV)	Max. recommended PV power(for module STC)	156kW
	Start voltage	195V
	Max. Input Voltage	1100V
	MPPT nominal voltage/range	550V,180V~800V
	Max. input current per MPP tracker	32A
	Max. short-circuit current per MPP tracker	40A
	No. of PV strings per MPP tracker	2
Output Data (AC)	No. of MPP trackers	10
	AC nominal power	100kW
	Max. AC apparent power	110kVA
	Nominal AC voltage/range	380/400/415V,-15%~+10%
	Nominal AC grid frequency/range	50/60Hz,45-55Hz/55-65Hz
	Max. output current	166.7A
	Adjustable power factor	-1...+1
Input Data (AC)	THDi	<3%
	AC grid connection type	3P3W+PE/3P4W+PE
	AC nominal power	100kW/200kW
	Max. AC apparent power	110kVA/200kVA
	Nominal AC voltage/range	380/400/415V,-15%~+10%
	Nominal AC grid frequency/range	50/60Hz,45-55Hz/55-65Hz
	Max. input current	166.7A/303A
Efficiency	Max. efficiency	98.20%
Backup Power (AC)	Rated AC output power	100kW
	Max. AC apparent power	120kVA
	Rated AC output voltage	220V/230V/240V(L-N),380V/400V/415V(L-L)
	Nominal AC output frequency	50/60 Hz
	Load connection	3W+N+PE
	Max. output current	181.8A
	THDV	<3% (Linear load)
Battery Data (DC)	Load unbalance	100% three-phase unbalanced
	Overload capacity	≤110%: Continues; 110%~120%:<1min; >120%:200ms
	On/off grid transfer time	≤20ms
	Continuous charging and discharging power	113.5kW
	Battery voltage range	600-1000V (for 3P3W) / 680-1000V (for 3P4W)
	Recommended battery voltage	768V
	Max charging and discharging current	167A
Protection Devices	BMS communication	RS485/CAN
	PV reverse polarity protection	Yes
	Battery reverse protection	Yes
	AC/DC surge protection	Type II
	Insulation resistance monitoring	Yes
	Ground fault monitoring	Yes
	Grid monitoring	Yes
General	Residual-current monitoring unit	Yes
	AC short-circuit protection	Yes
	Strings monitoring	Yes
	Anti-islanding protection Opt	Opt
	PID protection Yes	Yes
	AFCI function	Opt
	Dimensions (W / H / D)	820/1350/510mm
	Weight	160kg
	Operating temperature range	-30 °C~60 °C (> 50°C, derating)
	Relative humidity	0~100%
	Altitude	4000m
	Topology	Transformerless
	Cooling	Smart air cooling
	IP degree	IP66
	Display	OLED+LED/WiFi+APP
	Interfaces:	RS485/CAN/USB Yes
	Interfaces:	WiFi/LAN Opt
	Warranty (5/10 years)	Yes/Opt
	EN 62920-2017, IEC/EN 62477-1, IEC/EN 62109-1, IEC/EN 62109-2, IEC 62116, IEC 61727, G99:2020, EN 50549-1, VDE 4105, NRS 097-2-1	