

Industrial & Commercial Energy Storage System Solution

>> Models:

50kW 71.8kWh=N
(N stands for 1-8)

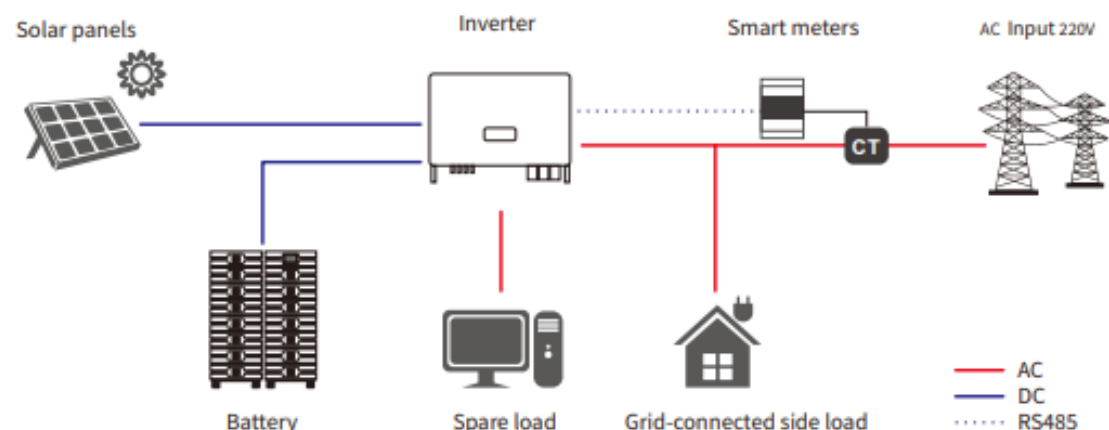
50kW 105kWh=N
(N stands for 1-8)



Remark

- 50kW Hybrid Inverter: Maximum parallel units (Up to 4 units can be operated in parallel off-grid) .
- SSLBs Cluster: Maximum parallel 8 units .
- SSLBs---Solid-State Lithium Batteries ; ESS---Energy Storage System

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Model		71.8kWh Battery Cluster	105kWh Battery Cluster
Battery Module	Cell type	Solid-state Battery 3.2V/54Ah	Solid-state Battery 3.2V/54Ah
	Battery pack configuration	5.53kWh / 2P16S	5.53kWh / 4P8S
Battery Cluster	Total energy	71.5kWh	104.5kWh
	Rated voltage	665.6V	486.4V
	Battery voltage range	582.4~759.2V	425.6~554.8V
	Number of battery modules	13	19
	Number of BMS	BCU*1, BMU*13	BCU*1, BMU*19
	Charge/discharge rate	1C	1C
	Cell cycle times	≥80%@6000times	≥80%@6000times
	Communication interface	CAN/RS485	CAN/RS485
	Protection class	IP20	IP20
	Operating temperature	Charge: 0°C~55°C; Discharge: -20°C~55°C	Charge: 0°C~55°C; Discharge: -20°C~55°C
	Altitude	2000m	2000m
	Temperature control method	Integrated fan	Integrated fan
	Fire protection system	Aerosols / Perfluorohexanone	Aerosols / Perfluorohexanone
	Weight	700kg	1000kg

Model		50 kW Hybrid Photovoltaic Inverter
Photovoltaic Input	Recommended Max.input power [kW]	75
	Start-up voltage [V]	135
	Max.DC input voltage [V]	1000
	Rated DC input voltage [V]	620
	MPPT voltage range [V]	200-850
	No.of MPP trackers	4
	No.of DC inputs per MPPT	2
	Max.input current [A]	30×4
	Max.short-circuit current [A]	40×4
Battery Side	Battery type	Lithium Battery (with BMS)
	Battery voltage range [V]	135-750
	Max. charging/discharge current [A]	100/100
Grid Side	Rated output powe [kW]	50
	Max.output apparent powe [kVA]	55
	Max.input apparent power kVA]	60
	Max.charging power of battery [kW]	50
	Rated AC voltage	3L/N/PE;220/380V;230/400V;240/415V
	Rated AC frequency [Hz]	50/60
	Max.output current [A]	83
	Power factor	0.8 leading ...0.8 lagging
	Max.total harmonic distortion	<3%@Rated output power
	DC	<0.5%In
Back-up Side	Rated output power [kW]	50
	Max.output apparent power [kVA]	55
	Max.output current [A]	83
	UPS switching time	<20ms
	Rated output voltage	3L/N/PE;220/380V;230/400V;240/415V
	Rated output frequency [Hz]	50/60
	Voltage harmonic distortion	<3%@Linear load
Generator Side	Max.intput apparent power [kVA]	60
	Max.charging power of battery [kW]	50
	Rated AC voltage	3L/N/PE;220/380V;230/400V;240/415V
	Rated AC frequency [Hz]	50/60
	Max,input current [A]	87
Efficiency	Max.efficiency	98.80%
	European efficiency	98.38%
Protection	DC reverse polarity protection	Integrated
	Surge protection	Integrated
	Over-temperature protection	Integrated
	Residual current protection	Integrated
	Islanding protection	Integrated
	AC over-voltage protection	Integrated
	Overload protection	Integrated
	AC short-circuit protection	Integrated
	General Data	Over voltage category
Dimensions [W×H×D mm]		800×620×300
Weight [KG]		72
Protection degree		IP65
Standby self-consumption [W]		<15
Topology		Transformerless
Operating Temperature Range [C]		-30~60
Relative Humidity [%]		0~100
Operating Altitude [m]		3000(>3000m derating)
Cooling		Smart fan
Noise Level [dB]		<50
Display		OLED & LED
Communication	CAN,RS485,WiFi/LAN (Optional)	