

Smart PV ESS Cabinet-50/100

The Smart Energy Storage Integrated Cabinet is an integrated energy storage solution widely used in power systems, industrial, and commercial applications. This cabinet integrates advanced battery technology, energy management systems, and intelligent controls, achieving efficient energy storage in a compact device.

Product Features

-  Multi-scenario applications
-  All-in-one design
-  Smart & User-friendly
-  Safe and reliable



Product Parameters

PRODUCT MODEL	CESS-Smart PV ESS-50/100
DC Parameters	
Nominal capacity	100.35kWh
Rated voltage	DC 358.4V
Voltage rage	DC 296.8~408.8V
Max charge/discharge current	100A
DOD	90%
Cooling method	Fan cooling
PV Input	
Max. input power	75KW
Max. input voltage	1000V
MPPT operating voltage range	200-850V/620V
Start-up voltage	180V
Max. input current	30A*4
Max. short circuit current	40A*4
No. of MPPT trackers	4
No. of strings per MPPT	2
AC Parameters	
Nominal output power	50kW
Nominal output voltage	380V/400V, 3L/N/PE
Nominal output frequency	50Hz/60Hz
Max. output current	83A
Power factor	~1 (0.8 lead to 0.8 lag, can be set)
THDi	<3%
Back-up data	
Nominal output voltage	380V/400V, 3L/N/PE
Nominal output frequency	50Hz/60Hz
Nominal output current	83A
Nominal output power	35.8kW
Max. apparent power	35.8kVA
Max.Single-phase apparent power	12kVA
Switching time	<20ms
System Parameters	
Dimensions(WxDxH)	1530*1280*1740mm
Weight	1.5t
Protection grade	Ip54
Anti-corrosion grade	C4
Operating temperature	-20°C~55°C
Storage temperature	-30°C~55°C
Relative humidity	≤100%
Temperature control	Industrial air-conditioning
Fire protection	Aerosol
Altitude	≤3000m
PCS cooling method	Forced air cooling
Communication protocol	Modbus /Rs485
Certification	IEC61000, IEC62477, IEC62619, EN62109-1/2, EN50549-1/10, VDE 4105, NTS 631 Type A, C10-11, NRS 097-2-1, PEA&MEA, VFA 2019, VDE 0126, G99-1/9 Type A, UN38.3