



## **PAC50** 50KW Modular Power Converter

Enhance your C&I energy storage applications and small to medium-sized microgrids with the cutting-edge ESS outer cabinet solution. Our modular inverter, the 50kW PAC50DP equipped with 3 MPPT, is specifically crafted to seamlessly operate with the 102.4kWh HBES50+ battery. This dynamic duo is housed in a specially designed outdoor cabinet, ensuring optimal performance and durability in any environment.



### Flexible Configuration

- Modular Design, Expanding as Required
- Small & Light, Wall Mounted
- Installed in Parallel for Expansion



### Powerful Function

- Support PV+ESS
- Grid Support, Equipped with SVG Technology
- On-Grid and Off-Grid Operation



### Reliable Protection

- Outdoor IP65 Design
- Sufficient Protection Functions Equipped

# SPECIFICATIONS

Model	PAC50DP
<b>PV Side</b>	
Max. Input Voltage	1000V
MPPT Voltage Range	350V ~ 800V
Max. Current per MPPT	36A
Number of MPPT	3
Number of Inputs Per MPPT	2
<b>Battery Side</b>	
Max. Input Voltage	750V
Min. Input Voltage	350V
DC Voltage at Nominal Operation	500V ~ 750V
Max. DC Current	55A*2
Max DC Input Power	55KW
Number of DC Inputs	2
<b>AC Side (On-Grid)</b>	
Nominal AC Output Power	50kW
Max. AC Output Power	55kVA
Max. AC Current	80A
AC Voltage Range	340V ~ 440V
Nominal Grid Frequency/Frequency Range	50/60Hz±5Hz
THDv	<3%(100% Load)
Adjustable PF Range	-1(Lagging) ~ 1(Leading)
<b>AC Side(Off-Grid)</b>	
Nominal AC Voltage	230/400V±3%, 3L + N + PE
THDv	<3% (Liner Load)
Nominal Grid Frequency/Frequency Range	50/60Hz
Nominal AC Output Power	50kW
<b>Efficiency</b>	
Max. Efficiency	97.5%
<b>Protection</b>	
Reverse Connection Protection	Yes
DC Switch	Yes
Over-Temperature Protection	Yes
Grid Monitoring/Earthing Fault Detection	Yes
Insulation Monitoring	Yes
DC/AC Surger Protection	DC Type II; AC Type III
<b>General Parameters</b>	
Dimensions (WxHxD)	650*715*325mm
Weight	75KG
Topology	Transformerless
IP Protection	IP65
Operation Temperature Range	-25-60°C(>45°C Derating)
Operation Humidity Range	0-100% (No Condensing)
Cooling Method	Intelligent Air Cooling
Max. Operation Altitude	3000m
Communication Port	RS485/CAN
Standards	IEC62477; IEC61000; CE; GB/T; IEC62109; IEC61683; IEC60068; IEC61727; IEC62116; EN50549; VDE4105; G99



# HBES50-100

## Outdoor Battery Cabinet



### Safe & Reliable

- CATL LFP Battery Cell
- Double Fire Suppression System Design
- 1 + 1 Redundancy Design



### Simple & User-Friendly

- Pre-Installed for Easy Installation on Site
- Integrated BMS/EMS
- Effortless Operation, Cloud Control



### Economical & Efficient

- Save Capex, Expanding as Required
- Efficient and Energy-Saving HVAC Design

# SPECIFICATIONS

Model	HBES50	HBES100
Battery Type	LFP	
Battery Module Capacity	5.12kWh	
Number of Modules	10	10*2
Total Battery Capacity	51.2kWh	102.4kWh
Nominal Voltage	512V	
Operating Voltage Range	448V-565V	
Charge/Discharge Rate	Max. 1C	
DoD	95%	
General Parameters		
Dimensions (WxDxH)	1100 x 1100 x 1680 mm	1100 x 1100 x 2380 mm
Weight	<800kg	<1.5T
Installation Site	Outdoor	
IP Protection	IP54	
Anti Corrosion Level	C4	
Operation Humidity	5%-95% (No Condensing)	
Operation Temperature	-30°C-+50°C	
Max. Operation Altitude	4000m >3000m Derating	
Communication Port	Ethernet; CAN	
Communication Protocol	CAN; MODBUS TCP/IP	
Cooling Method	Air Conditioner	
Standards	IEC62619-2017; UN38.3; IEC61000-6-2/4	