

# Electronic Power



## 150kW PCS(Power Conversion System) Energy Storage Converter

### Key Features



#### High Efficiency and Energy Saving

Innovative three-level plus vector control technology with a peak efficiency of 98.4%, advanced control algorithms, and optimized operational strategies. Efficient Thermal Management System.



#### Safe and Reliable

IP65, C5 corrosion resistance level, good environmental adaptability. Supports soft start with smooth power increase for high safety. Onboard lightning protection devices, fuses, and other protective components with high protection levels.



#### Comprehensive Functionality

Grid-forming capability, supporting voltage source active support, primary frequency regulation, inertia response, and black start. Supports reactive power compensation and power quality control for the grid.



#### Flexible Configuration

Wide DC voltage range of 550 to 1000V, compatible with different battery systems. Supports multi-module parallel expansion for grid-connected and off-grid applications. Adaptive switching between three-phase three-wire and three-phase four-wire, compatible with various distribution systems.

# Specifications

Grid-Connected Operation Parameters	Rated Power	150kW
	Rated Voltage	380V/400V AC
	Grid Connection Type	Three-phase Four-wire Compatible with Three-phase Three-wire
	Rated Frequency	50Hz/60Hz
	Rated Current	228A
	Maximum Current	250A
	Power Factor	> 0.99
	Total Current Harmonic Distortion	< 2%
Grid-Connected and Parallel Operation Capability		16Units
DC Parameters	DC Voltage Range	550V~1000V
	Maximum Charge/Discharge Current	250A
	Constant Current Range	550V~600V
	Constant Power Range	600~950V
Off-Grid Operation Parameters	Off-Grid AC Voltage	Three-phase Four-wire, Phase Voltage 220V (Independently Controlled for Each Phase)
	DC Voltage Range	550V~1000V
	Unbalanced Load Capacity	100%
	Off-Grid Parallel Operation Capability	8units
System Parameters	Efficiency	≥ 98.4% (maximum)
	Communication Interface	CAN/RS485
	Dimensions (W x D x H)	700mm*800mm*290.5mm
	Operating Temperature Range	-20°C ~60°C (Derating Above 50°C )
	Cooling Method	Independent Air Duct, Air-cooled
	Protection Rating	IP65
	Corrosion Resistance Level	C5
Protection Functions	AC Lightning Protection	Available
	Battery Reverse Connection Protection	Available
	AC Short Circuit Protection	Available
	Over-temperature Protection	Available
	Anti-islanding Protection	Available
	Insulation Resistance Monitoring	Available



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