

PCS

Industrial & Commercial Energy Storage Converter Sic PCS



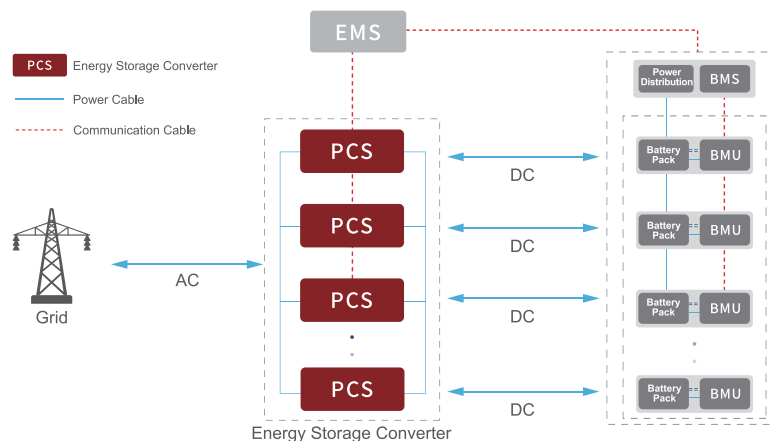
• Features

- High-efficiency bidirectional AC/DC conversion (up to 99.1%) with full potting and strong reliability.
- 100% three-phase unbalanced load capability and excellent grid adaptability.
- Compact 3U design with low standby loss and easy installation.
- Supports AC parallel expansion, hot-swap maintenance, and 3P3W/3P4W operation.
- Wide voltage range compatible with 280Ah–300+Ah battery cells.

• Product Introduction

The PCS energy storage converter is a bidirectional power module for AC-Dc power conversion that supports both grid-connected mode and off-grid mode. It can control the battery charging and discharging according to EMS instructions, perform intelligent mode switching, and adapt to large capacity cells such as 280Ah, 314Ah, and 320Ah. PCS has the functions such as overvoltage protection, overcurrent protection, overload protection, short circuit protection, over temperature protection, high/low voltage crossing, and island protection. When combined with STS, it can achieve seamless switching between grid connection and off-grid, which is suitable for peak shaving and valley filling in commercial and industrial parks, responding to demand, and building microgrids with wind and photovoltaic power generation equipment and diesel generators.

• System Topology



• Technical Parameter

PCS Energy Storage Converter		
Model	PCS950-125KCBMG	PCS950-105KCBMG
DC Parameters		
Rated Power	125KVA	105KVA
Voltage Range	600~950VDC(625~950VDC full-load operation)v	
Stabilized Voltage Predision	±1%±	
Stabilized Current Predision	±1%	
Maximum Current	210A	175A
AC On-grid Parameters		
Rated Power	125KVA	105KVA
Maximum Power	137.5KVA(continuous)	115.5KVA(continuous)
Wiring Mode	3P3W+PE/3P4W+PE	
Rated Voltage	400VAC	
Voltage Range	340~460VAC,340~400VAC linear derating	
Maximum Current	198.5A	167A
Voltage Frequency	50/60±5Hz	
Power Factor	[-1 , 1]	
THDi	≤3%	
Maximum Efficiency	≥99.1%	
AC Off-grid Parameters		
Rated Power	125KVA	105KVA
Maximum Power	137.5KVA(continuous)	115.5KVA(continuous)
Rated Voltage	400VAC	
Wiring Mode	3P3W+PE/3P4W+PE	
Rated Output Frequency	50/60Hz	
THDu	≤3%	
System Parameters		
Overload Capability	110% (long-term)	
Dimensions(W*D*H)	440mm*130mm*600mm (without hanging ears)	
Weight(kg)	≤40kg	
Level Of Protection	IP20	
Noise	≤75dB	
Working Temperature Range	-30°C~-+65°C (>50°C derating)	
Storage Temperature Range	-40°C~-+70°C	
Humidity Range	0~98% (no condensation)	
Heat-dissipating Method	Intelligent air cooling	
Altitude	4000m (>2000m derating)	
Safety Regulations & Standards	CE (IEC 62477-1)	
EMC Standards	CE (IEC 61000-6-2/4)	
Grid Connection Standards	European EN50549-1/-10;Germany VDE4105;UK G99	
Parameter Communication		
PC Terminal	Ethernet (Modbus-TCP);RS485(Modbus-RTU);CAN 2.0	
BMS	RS485;CAN 2.0B	