

PCS1200HV/1500HV

Bidirectional battery inverter from 1200-1500kW, can be used alone or with solar charge controllers and other accessories for different application scenarios.

Features



SMART O&M

- Modular design, easy for maintenance



HIGH YIELD

- Advanced three-level technology, max. efficiency 98.5%
- Effective forced air cooling, no derating up to 45°C
- Wide DC voltage operation window, full power operation at 1500V
- Max. 8 units in parallel in off-grid operation



FLEXIBLE APPLICATION

- Bidirectional power conversion system with full four-quadrant operation
- Compatible with high voltage battery system, low system cost
- Battery charge & dis-charge management and black start function integrated

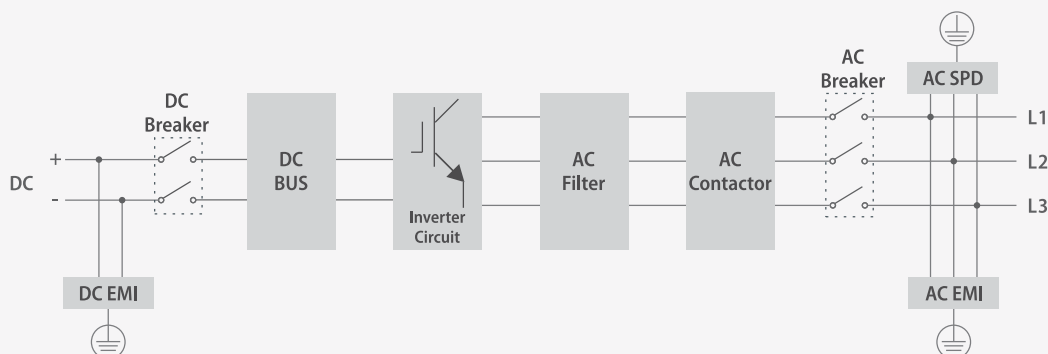


GRID SUPPORT

- Fast active/reactive power response
- L/HVRT, FRT, soft start/stop, specified power factor control and reactive power support



Block Diagram



PCS1200HV**PCS1500HV****AC(on-grid)**

Apparent power	1200kVA	1500kVA
Rated power	1200kW	1500kW
Rated voltage	550V	690V
Rated current	1260A	1260A
Voltage range	495V-605V	621V-759V
Rated frequency	50/60Hz	50/60Hz
Frequency range	46-54/56-64Hz	46-54/56-64Hz
THDI	<3%	<3%
PF	0.9 lagging~0.9 leading	0.9 lagging~0.9 leading
AC connection	3/PE	3/PE

AC(off-grid)

Apparent power	1200kVA	1500kVA
Rated power	1200kW	1500kW
Rated voltage	550V	690V
Rated current	1260A	1260A
THDU	≤2% linear	≤2% linear
Rated frequency	50/60Hz	50/60Hz
Overload capability	110%-10 mins 120%-1 min	110%-10 mins 120%-1 min

DC (Battery and PV)

Rated power	1200kW	1500kW
Current regulation	±1%	±1%
Voltage regulation	±1%	±1%
Voltage ripple	<3%	<3%
Current ripple	<2%	<2%
Voltage range	900V-1500V	1000V-1500V
Max. charge/discharge current	1111A/1334A	1300A/1500A

General Information

Max. efficiency	98.5%	98.5%
Protection degree	IP20	IP20
Noise emission	<65dB(A)@1m	<65dB(A)@1m
Operating temperature	-25°C~+55°C	-25°C~+55°C
Cooling method	Forced-air	Forced-air
Relative humidity	0-95% non-condensing	0-95% non-condensing
Max. altitude	5000m(derate over 2000m)	5000m(derate over 2000m)
Dimension(W/H/D)	1510/1900/850mm	1510/1900/850mm
Weight	1400kg	1400kg
Build-in transformer	No	No
Lightning protection	Type II	Type II
Grid support	L/HVRT, FRT, active & reactive power control and power ramp rate control. Volt-var, Volt-watt. Frequency-watt	

Communication

Display	Touch screen	Touch screen
Communication	RS485/CAN	RS485/CAN