# 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

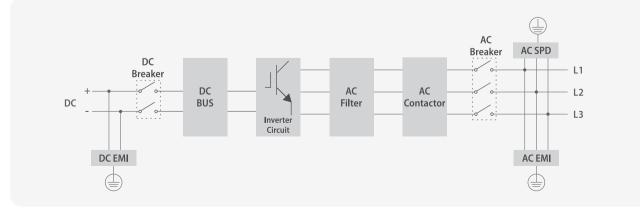
### **FLEXIBLE APPLICATION**

- 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**



ATESS

PCS1200HV

#### PCS1500HV AC(on-grid) Apparent power 1200kVA 1500kVA 1200kW 1500kW Rated power 550V Rated voltage 690V Rated current 1260A 1260A Voltage range 495V-605V 621V-759V 50/60Hz 50/60Hz Rated frequency 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

3/PE

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 regulatoin	±1%	±1%		
Voltage ripple	<3%	<3%		
Current ripple	<2%	<2%		
Voltage range	900V-1500V	1000V-1500V		
Max. charge/discharge current	1111A/1334A	1300A/1500A		
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#### **General Information**

AC connection

Max. efficiency	98.5%	98.5%	
Protection degree	IP20	IP20	
Noise emission	<65dB(A)@lm	<65dB(A)@Im	
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	Туре II	Туре 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	

#### PCS1200HV

3/PE