

PCS100/250/500/630

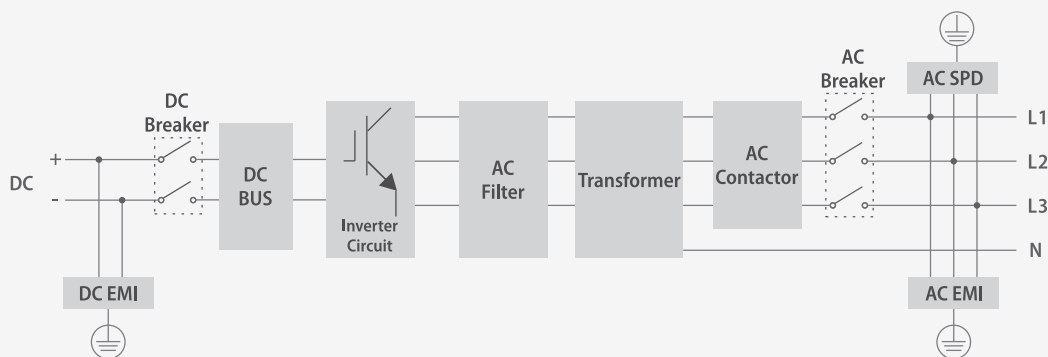
Bidirectional battery inverter from 100kW to 630kW, can be used alone or with solar charge controllers and other accessories for different application scenarios.

Features

-  Programmable working mode
-  Flexible configuration
-  Touchscreen LCD
-  Support remote control of DG
-  Max. 8 units in parallel for on&off grid operation



Block Diagram



	PCS100	PCS250	PCS500	PCS630
AC(on-grid)				
Apparent power	110kVA	275kVA	550kVA	693kVA
Rated power	100kW	250kW	500kW	630kW
Rated voltage	400V	400V	400V	400V
Rated current	144A	361A	722A	909A
Voltage range	360V-440V	360V-440V	360V-440V	360V-440V
Rated frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Frequency range	45~55/55~65Hz	45~55/55~65Hz	45~55/55~65Hz	45~55/55~65Hz
THDI	<3%	<3%	<3%	<3%
PF	0.8 lagging~0.8 leading	0.8 lagging~0.8 leading	0.8 lagging~0.8 leading	0.8 lagging~0.8 leading
AC connection	3/N/PE	3/N/PE	3/PE	3/PE
Max. rectified power	100kW	250kW	500kW	630kW

AC(off-grid)				
Apparent power	110kVA	275kVA	550kVA	693kVA
Rated power	100kW	250kW	500kW	630kW
Rated voltage	400V	400V	400V	400V
Rated current	144A	361A	722A	909A
THDU	≤2% linear	≤2% linear	≤2% linear	≤2% linear
Rated frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Overload capability	110%-10 mins 120%-1 min	110%-10 mins 120%-1 min	110%-10 mins 120%-1 min	110%-10 mins 120%-1 min
Max. rectified power	100kW	250kW	500kW	630kW

DC (Battery)				
Rated power	100kW	250kW	500kW	630kW
Current regulation	±1%	±1%	±1%	±1%
Voltage regulation	±1%	±1%	±1%	±1%
Voltage ripple	<3%	<3%	<3%	<3%
Current ripple	<2%	<2%	<2%	<2%
Voltage range	500V-820V	500V-820V	600V-900V	600V-900V
Max. charge/ discharge current	220A	550A	917A 1155A	

General Information				
Max. efficiency	97.10%	97.30%	98.50%	98.50%
Protection degree	IP20	IP20	IP20	IP20
Noise emission	<65dB(A)@1m	<65dB(A)@1m	<65dB(A)@1m	<65dB(A)@1m
Operating temperature	-25°C~+55°C	-25°C~+55°C	-25°C~+55°C	-25°C~+55°C
Cooling method	Forced-air	Forced-air	Forced-air	Forced-air
Relative humidity	0-95% non-condensing	0-95% non-condensing	0-95% non-condensing	0-95% non-condensing
Max. altitude	6000m (derate above 3000m)	6000m (derate above 3000m)	6000m (derate above 3000m)	6000m (derate above 3000m)
Dimension(W/H/D)	1100/1890/850mm	1600/2080/850mm	1200/1900/800mm	1200/1900/800mm
Weight	820kg	1465kg	870kg	900kg
Build-in transformer	Yes	Yes	No	No
Lightning protection	Type II	Type II	Type II	Type II
Transfer between on/off grid	Manual(default) Automatic(optional) ≤10ms	Manual(default) Automatic(optional) ≤10ms	Manual(default) Automatic(optional) ≤10ms	Manual(default) Automatic(optional) ≤10ms

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

Certificate				
CE , MEA , PEA , EN 61000-6-2:2019 , EN 61000-6-4:2019 , EN62109-1:2010 , EN62109-2:2011, NRS 097-2-1:2017, VDE 0126, UTE C-15-712, EN 50549-1:2019, AS/NZS 4777.2:2020, AS IEC 62477-1:2016, NC RfG, G99, DEWA Annex D.3:2016, CEI 0-16:2022, EN 62920:2017+A1:2021				