



**ATESS**  
 PCS50/100  
 PCS250/500/630

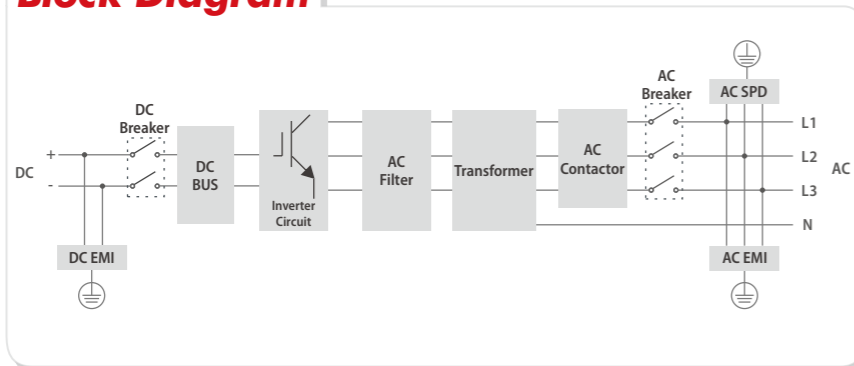
## Overview

Bidirectional battery inverter from 50kW to 630kW, can be used alone or with solar charger and other accessories for different application scenario

## Features

- Paralleling multiple units
- Flexible Configuration
- Programmable working mode
- Support remote control of DG
- Touchscreen LCD

## Block Diagram



# Datasheet

	ATESS PCS50	ATESS PCS100	ATESS PCS250	ATESS PCS500	ATESS PCS630
<b>AC (Grid-connected)</b>					
Apparent power	55kVA	110kVA	275kVA	550kVA	693kVA
Rated power	50kW	100kW	250kW	500kW	630kW
Rated voltage	400V	400V	400V	400V	400V
Rated current	72A	144A	361A	722A	909A
Voltage range	360V - 440V	360V - 440V	360V - 440V	360V - 440V	360V - 440V
Rated frequency	50/60Hz	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	45-55/55-65Hz
THDI	<3%	<3%	<3%	<3%	<3%
PF	0.8lagging~0.8leading	0.8lagging~0.8leading	0.8lagging~0.8leading	0.8lagging~0.8leading	0.8lagging~0.8leading
AC connection	3/N/PE	3/N/PE	3/N/PE	3/PE	3/PE

<b>AC(Off-grid)</b>					
Apparent power	55kVA	110kVA	275kVA	550kVA	693kVA
Rated power	50kW	100kW	250kW	500kW	630kW
Rated voltage	400V	400V	400V	400V	400V
Rated current	72A	144A	361A	722A	909A
THDU	≤2% linear	≤2% linear	≤2% linear	≤2% linear	≤2% linear
Rated frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Overload capability	110%-10mins 120%-1min	110%-10mins 120%-1min	110%-10mins 120%-1min	110%-10mins 120%-1min	110%-10mins 120%-1min

<b>DC (Battery)</b>					
Rated power	50kW	100kW	250kW	500kW	630kW
Current regulation	±1%	±1%	±1%	±1%	±1%
Voltage regulation	±1%	±1%	±1%	±1%	±1%
Voltage ripple	<3%	<3%	<3%	<3%	<3%
Current ripple	<2%	<2%	<2%	<2%	<2%
Voltage range	500V-820V	500V-820V	500V-820V	600V-900V	600V-900V
Max. charge/discharge current	110A	220A	550A	917A	1155A

<b>General Information</b>					
Maximum efficiency	95.50%	97.10%	97.30%	98.50%	98.50%
Protection degree	IP20	IP20	IP20	IP20	IP20
Noise emission	<65dB(A)@1m	<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	-25°C~+55°C
Cooling	Forced-air	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	0-95% non-condensing
Maximum altitude	6000m (derate above 3000m)	6000m (derate above 3000m)	6000m (derate above 3000m)	6000m (derate above 3000m)	6000m (derate above 3000m)
Dimension(W/H/D)	600/1630/800mm	1100/1890/850mm	1600/2080/850mm	1200/1900/800mm	1200/1900/800mm
Weight	450kg	820kg	1465kg	900kg	900kg
Build-in transformer	Yes	Yes	Yes	NO	NO
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	Manual(default) Automatic(optional) ≤10ms

<b>Communication</b>					
Display	Touch screen	Touch screen	Touch screen	Touch screen	Touch screen
Communication	RS485/CAN	RS485/CAN	RS485/CAN	RS485/CAN	RS485/CAN

**Certificate** CE, MEA, PEA, EN 61000-6-4:2007+A1:2011, EN61000-6-2:2005, EN62109-1:2010, EN62109-2:2011