

Power conversion system (with isolation transformer)



KEY

- Reactive power, active power adjustable.
- Multiple working modes are available, which can be flexibly applied to various working scenarios.
- Built-in isolation transformer, adapt to impact load.
- Redundant design for auxiliary power supply.
- Highest power density, maximum efficiency reach 97.5%.
- Support 4 pcs in parallel.

APPLICATIONS

- » PV charging station
- » C&I energy storage
- » Charging station



DC(battery)						
Model	PCS0030TS	PCS0050TS	PCS0100TS	PCS0150TS	PCS0250TS	PCS00TS
Voltage range (V)	250~850	320~850	420~850	420~850	420~850	500~850
Max. current (A)	137	178	270	405	673	1,128
AC(on-grid)						
Max. output power (kVA)	33	55	110	165	275	550
Rate output power (kW)	30	50	100	150	250	500
Rated voltage (V)	400					
Voltage range (V)	320~460					
Rated current (A)	43	72	144	216	361	722
Max. output current (A)	48	80	159	238	397	794
Rated frequency (Hz)	50/60					
Frequency range (Hz)	45~55/55~65					
THDi	<3%					
Power factor	1lagging-1leading (Settable)					
AC connection	3W+N+PE					
AC(off-grid)						
Rated voltage (V)	400					
THDu	< 1% Linear < 5% Nonlinear					
Rated frequency (Hz)	50/60					
Overload capacity	110%long-term					
General data						
Max.efficiency	96.3%	96.5%	97.1%	97.1%	97.3%	97.5%
Ingress protection	IP21					
Noise emission (dB)	<70					
Operating temperature (°C)	-30~55					
Cooling	Forced air					
Relative humidity	0 ~95% non-condensing					
Operating altitude	5,000m(>3,000 Derating)					
Dimension W*D*H (mm)	800*800*1,900	800*800*1,900	800*800*1,900	800*800*1,900	1,200*800*2,050	1,600*1050*2,050
Net weight(kg)	621	712	936	1,057	1,582	2,665
Transformer ratio	100/400	200/400	270/400	270/400	270/400	315/400
Self-consumption (W)	<100					<208
On/ Off grid switching	Automatic					
Display and communication						
Display	LCD touch-screen					
BMS communication	RS485, CAN					
EMS communication	RS485, TCP/IP					
Certificates	IEC/EN62109-1/-2, IEC/EN 62477-1, IEC/EN 61000-6-2, IEC/EN 61000-6-4, CGC					