

3P-PC

Three Phase Power Conversion System



• Features

- Maximum efficiency can reach 97.3%
- Modular design ,easy for installation and deployment
- Bidirectional power conversion system with full four quadrant operation
- 62.5kW to 630kW by 1 to 10 power modules
- Multi-string technology for better battery safety and performance
- Multiple battery strings working in parallel or independently to allow easy power and energy expansion
- Grid-support function built-in
- Optional STS to achieve seamless switching between on-grid and off-grid

• Applications



Self-Consumption



Off grid



Demand Charge



Back Up



DG+BESS



Micro-grid



Smooth output



Peak Shifting

• Technical Specification

3P-PC Series Power Conversion System						
Model	62.5KW	125KW	250KW	375KW	500KW	630KW
Utility-interactive Mode						
Battery voltage	600~900V					
DC max current	110A	220A	440A	660A	880A	1100A
AC voltage	400V±15%					
Max. AC current	100A	200A	400A	600A	800A	1000A
Nominal power	62.5KW	125KW	250KW	375KW	500KW	630KW
AC frequency	50Hz/60Hz±2.5Hz					
THDi	≤3%					
AC PF	-1~+1					
Stand-alone Mode						
Battery voltage	600~900V					
DC Max Current	110A	220A	440A	660A	880A	1100A
AC output voltage	400V±10%(±10% configurable)					
Max. AC output current	100A	200A	400A	600A	800A	1000A
Nominal AC output power	62.5KW	125KW	250KW	375KW	500KW	630KW
AC max power	68.75KW	137.5KW	275KW	412.5KW	550KW	693KW
Output THDu	< 3 % (Linear load)					
AC frequency	50Hz/60Hz±0.2%					
AC PF	-1~+1					
Other						
Peak efficiency	97.30%					
Protection	Overtemperature protection, AC over/under voltage protection, Over/under frequency protection, Emergency power off, AC phase reverse, Fan/relay failure, Over/under load protection, Ground fault circuit Interrupter, Anti-islanding					
AC connection	3P4W					
Display	7 "color touch screen					
Communication	RS485/CAN/ModBus TCP/IP/CAN/LAN					
Isolation	Built-in Transformer		Transformer			
Overload Capability	110%: 10min ; 120%: 1min					
Physical						
Cooling	Forced air cooling					
Noise	≤70dB					
Enclosure	IP20/IP54					
Max elevation	3000m/10000feet (>2000m/6500feet derating)					
Operating ambient temperature	- 20℃ ~ 50℃ (>45℃ derating)					
Humidity	0~95%(No condensing)					
Size (W×H×D)	850*2400*1600mm			1400*2400*1600mm		
Weight	/	/	/	/	/	/

PC-M

Power Conversion Module



• Features

- DSP+CPLD fully digital control core, modular design, easy to maintain and expand.
- Pure sine wave output, low current harmonic content, no pollution and no impact on the grid.
- Dual AC and DC power supply to meet the requirements of black start mode.
- Can be equipped with RS232/RS485, Ethernet and other communication interfaces to achieve remote data acquisition and monitoring.
- Supports EMS local controller for intelligent energy control.
- Bi-directional Power Conversion System
- Compatible with 19-inch rack for easy integration and installation
- Optional smart transfer switch for auto-backup.
- Optional STS to achieve seamless switching between on-grid and off-grid
- Maximum efficiency can reach 97.5%)

• Applications



Self-Consumption



Off grid



Demand Charge



Back Up



DG+BESS



Micro-grid



Smooth output



Peak Shifting

• Technical Specification

PC-M Series Power Conversion Module			
Model	30KW	62.5KW	100KW
Utility-interactive Mode			
Battery voltage	600~900V		
DC max current	50A	100A	170A
AC voltage	380V±15%		
Max. AC current	100A	200A	400A
Nominal power	30KW	62.5KW	100KW
AC frequency	50Hz/60Hz±2.5Hz		
THDi	≤3%		
AC PF	-1~+1		
Stand-alone Mode			
Battery voltage	650~950V		
DC Max Current	50	220A	440A
AC output voltage	380±1%		
Max. AC output current	50A	100A	170A
Nominal AC output power	30KW	62.5KW	100KW
AC max power	33KW	68.75KW	110KW
Output THDu	< 3 % (Linear load)		
AC frequency	50Hz/60Hz±0.2%		
AC PF	-1~+1		
Overload Capability	110%: 10min ; 120%: 1min		
Physical			
Cooling	Forced air cooling		
Noise	≤70dB		
Enclosure	IP20		
Max elevation	3000m/10000feet (>2000m/6500feet derating)		
Operating ambient temperature	- 20℃ ~ 50℃ (>45℃ derating)		
Humidity	0~95%(No condensing)		
Size (W×H×D)	560*230*650mm		
Weight	/	/	/
Other			
Peak efficiency	97.30%		
Protection	Overtemperature protection, AC over/under voltage protection, Over/under frequency protection, Emergency power off, AC phase reverse, Fan/relay failure, Over/under load protection, Ground faultcircuit Interrupter, Anti-islanding		
AC connection	3P4W		
Display	7 "color touch screen (optional)(External connection)		
Communication	RS485/CAN/ModBusTCP/IP/CAN/LAN		
Isolation	Built-in Transformer		Transformer