

COOLBOY series



PV Grid-connected Inverter

PW3000TL / PW3600TL / PW4000TL / PW4600TL

- 2 Independent MPPT Inputs for PV
- Maximum Efficiency 97.2%, EU Efficiency 96.5%
- Optional WiFi Communication for Local Network
- RS485 , Ethernet for Remote Network
- Optional Manual Switch
- 25 Year' s Historical Operation Data Storage
- Reliable Heat Resistant Capability



Item	PW3000TL	PW3600TL	PW4000TL	PW4600TL
DC Input				
Number of MPP tracker	2			
Max. PV-generator Power [W]	3600	4200	4600	5000
Max. PV-generator Power for each MPP tracker [W]	3000			
Max. DC voltage for each MPP tracker [V]	580			
Operating DC voltage range of each MPP tracker [V]	110–550			
MPPT range of each MPP traker at rated power[V]	200–500			
Max. DC current of each MPP tracker[A]	15			
AC Output				
Rated AC Power[W]	3000	3600	4000	4600
Max. AC Power[W]	3300	4000	4400	4800
Grid voltage range[Vrms]	According to VDE0126–1–1, AS4777, CQC			
Grid frequency range[Hz]	According to VDE0126–1–1, AS4777, CQC			
Rated AC current[Arms]	13	15.7	17.4	20
Max. AC Current[A]	16.5	20	22	23
Power factor at rated power	0.99			
Harmonic distortion(THD) at rated power	<2%			
Efficiency				
Max. efficiency	97.0%	97.0%	97.2%	97.2%
Euro efficiency (at 360Vdc)	96.5%			
MPPT adaptation efficiency	99.5%			
Power Consumption				
Power consumption at standby [W]	≤15			
Power consumption at night [W]	≤0.1			
Protection				
Internal over-voltage, over-current, over-temperature protection	Integrated			
DC insulation monitoring	Integrated			
Mains monitoring	According to VDE0126–1–1, AS4777, CQC			
DC current monitoring	According to VDE0126–1–1, AS4777, CQC			
Islanding protection	According to VDE0126–1–1, AS4777, CQC			
Net weight (Kg)	25			
Dimension LxWxD (mm)	650×410×165 (mm)			
Installation environment	Indoor and Outdoor			
Operating temperature range	–20℃+60℃ (Up 50℃ derating)			
Relative humidity	0%~98%, no condensation			
Altitude	Up to 2000m without power derating			
IP protection type	IP65 according to IEC60529			
Certification	SAA, CE, CQC, VDE0126–1–1, IEC62109			
Over voltage category	DC Input: II AC Output: III			
Isolation type	Transformerless			
Cooling concept	Air cooling			
Noise level	<40dB (A)			
LED display/LCD display	3/color screen			
Data logger/Data communication interface	RS485, WiFi (optional)			
Standard warranty	5 years			