

PCO 25-40kW

Three Phase On-Grid Solar Inverter



3-4 MPP Trackers



160% DC Input
Oversizing



Smart I-V Curve
Diagnosis Supported



DC & AC Type II SPD



Intelligent Fault
Detection



IP66 Protection



AFCI Function
(Optional)



	PCO25KTR-3M	PCO30KTR	PCO33KTR	PCO36KTR	PCO40KTR
Input (DC)					
Max. Input Power	40kW	48kW	52.8kW	57.6kW	64kW
Max. Input Voltage	1100V				
Start Voltage	250V				
Rated Input Voltage	600V				
Full-load MPP Voltage Range	450V ~ 800V	500V ~ 800V			
MPPT Voltage Range	200V ~ 1000V				
Number of MPP Trackers / String per MPPT	3/2		4/2		
Max. Current per MPPT	26A				
Max. Short Circuit Current per MPPT	32A				
Output (AC)					
Max. Output Current	40.1A	48.3A	53A	57.8A	64.3A
Rated Output Power	25kW	30kW	33kW	36kW	40kW
Max. Output Power	27.7kVA	33.3kVA	36.6kVA	39.6kVA	44kVA
Rated Grid Frequency	50Hz / 60Hz				
Rated Grid Voltage	230Vac / 400Vac, 3L / N / PE				
Power Factor	>0.99 (0.8 leading-0.8 lagging)				
THDi	<3% (Rated Power)				
Efficiency					
Max. Efficiency	98.60%				
European Efficiency	98.50%				
MPPT Efficiency	99.90%				
Protection					
DC reverse polarity protection	Yes				
Anti-islanding protection	Yes				
AC short circuit protection	Yes				
Residual current monitoring unit	Yes				
Insulation resistance monitoring	Yes				
Ground fault monitoring	Yes				
Grid monitoring	Yes				
PV string monitoring	Yes				
Surge protection	Type II				
AFCI protection	Optional				
Communication					
Display	LED / LCD / WIFI+APP				
Communication	Standard: RS485/ USB Optional: WiFi / GPRS / Ethernet				
Standard Compliance					
Grid Connection Standards	IEC 61727, IEC 62116, IEC 60068, IEC 61683, VDE-AR-N 4110:2018, VDE-AR-N 4105:2018, VDE-AR-N 4120:2018, EN 50549, AS/NZS 4777.2:2015, CEI-021, VDE 0126-1-1/A1 VFR 2014, UTE C15-712-1:2013, DEWA DRRG, NRS 097-2-1, MEA/PEA, C10/11, G98/G99				
Safety / EMC	IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011				
General Data					
Dimensions (W x H x D)	600 x 430 x 230 mm				
Weight	30kg				32kg
Operating Temperature Range	-35° C ~ +60° C				
Cooling Method	Smart Cooling				
Protection Degree	IP66				
Max. Operating Altitude	4000m				
Relative Humidity	0 ~ 100%				
Topology	Transformerless				
Night Power Consumption	<1W				
Warranty	5 years (Standard) / 10 years (Optional)				