

PCO 50-70kW

Three Phase On-Grid Solar Inverter



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)



Omnispower
EUROPE

	PCO50KTR	PCO50KTRL	PCO60KTR	PCO60KTRL	PCO66KTRL	PCO70KTRL
Input (DC)						
Max. Input Power	80kW		96kW		105.6kW	112kW
Max. Input Voltage	1100V					
Start Voltage	250V					
Rated Input Voltage	600V				700V	
Full-load MPP Voltage Range	520V ~ 850V				600V ~ 850V	
MPPT Voltage Range	200V ~ 1000V					
Number of MPP Trackers	4					
Number of string per MPPT	3 / 2 / 3 / 2			3 / 3 / 3 / 3		
Max. Current per MPPT	39A / 26A / 39A / 26A			39A		
Max. Short Circuit Current per MPPT	48A / 32A / 48A / 32A			48A		
Output (AC)						
Max. Output Current	79.7A	66.2A	95.6A	79.4A	87.4A	92.6A
Rated Output Power	50kW		60kW		66kW	70kW
Max. Output Power	55kVA		66kVA		72.6kVA	77kVA
Rated Grid Frequency	50Hz / 60Hz					
Rated Grid Voltage	230Vac / 400Vac	277Vac / 480Vac	230Vac / 400Vac	277Vac / 480Vac		
Power Factor	>0.99 (0.8 leading~0.8 lagging)					
THDi	<3% (Rated Power)					
Efficiency						
Max. Efficiency	98.70%		98.80%		98.50%	
European Efficiency	98.40%				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 / 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, CEI-016					
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)	650 x 450 x 260 mm					
Weight	50kg					
Operating Temperature Range	-25° 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)					