KOYOE

Three phase photovoltaic grid-connected inverter

Product Models

- KY-3GT-10K0
- KY-3GT-12K0
- KY-3GT-15K0
- KY-3GT-17K0
- KY-3GT-20K0



Product characteristics

- Max power efficiency is 98.5%,smart MPPT Calculation,tracking efficiency reaching 99.99%;
- Support multi-inverter parallel connection, with powerfulscalability;
- MPPT voltage range from 200V-900V;

Safe and reliable

- IP65 protection grade, various protection functions.natural cooling, longer lifetime;
- Compact body, easy installation;
- Support PC and cell phone remote monitoring;
- The new cooling solution supports full load operation at 45℃.

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*Specifications are subject to the actual nameplate of the product

Model	KY-3GT-10K0	KY-3GT-12K0	KY-3GT-15K0	KY-3GT-17K0	KY-3GT-20K0
PV Input Data					
Maximum Allowable Input Strings Power	13000W	15600W	19500W	22100W	26000W
Nominal DC Power[W]	10300W	12350W	15400W	17500W	20520W
Maximum Input Voltage[V]	1000V				
Start Voltage[V]	180V				
Operating Voltage Range[V]	200~900V				
Input Number of Strings(pcs)	1/1	1/1	2/1	2/2	2/2
Maximum input Current[A]	12/12A	12/12A	23/12A	23/23A	23/23A
Maximum DC Short-circuit Current[A]	15/15A	15/15A	28/15A	28/28A	28/28A
AC Side					
Nominal Output Power[W]	10000W	12000W	15000W	17000W	20000W
Max. Output Power[W]	10000VA	12000VA	15000VA	17000VA	20000VA
Nominal Grid Voltage [Vac]	400V				
Type of Power Gric	3L/N/PE				
Frequency	50/60				
Total Harmonic of Output Current	< 1.5%				
DC Component	< 0.5%*In				
Power Factor/Range	> 0.99/(0.8 lead to 0.8 lag can be set)				
Efficiency					
Max. Efficiency[%]	97.80	98.20	98.30	98.43	98.50
European Efficiency[%]	98.20	97.80	97.90	98.00	98.10
MPPT Efficiency [%]	99.99				
Protective Devices					
Over Currernt Protection / Island Protection	integrated				
Surge Protection	DC Type II / AC Type III				
DC reverse protection/overvoltage/undervoltage protection	integrated				
Leakage current protection/insulation protection	integrated				
General Data					
Dimension(W*D*H)[mm]	505*414*200				
Weight[kg]	16	16	17	18	18
Degree of Protection	IP65				
Cooling Method	Natural convection		Forced air cooling		
Installation Method	Wall-mounted				
Topology	Transtormerless isolation				
Night Consumption[W]	< 0.5				
Working Temperature[℃]	-25~60 (>45 derating)				
Relative Humidity[%]	0~95				
Altitude[m]	< 3500, > 2000 derating				
Display Mode	LCD				
Communication	RS485/WIFI				
Connection Type	Plug in connector				
Certification					
Safety Standards	IEC/EN 62109-1/-2				
EMC Standards	IEC/EN61000-6-1/-2/-4,EN61000-6-3				
On-grid Standard	AS/NZS 4777.2, NRS 097-2-1:2017, NBT 32004-2018				

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