SUNGROW

Sold in India by:
Nitashi Solar
Call: +91-9834653792
Email: info@nitashi.in
Web: www.nitashi.in

SG10KTL-M/SG12KTL-M

String Inverter

High Yield

- Max. efficiency 98.6 %, European efficiency 98.1 %
- 1.1 overload capacity, 10% more yield under high irradiance
- Adapt to complex power grid, extend the grid - connected generation time
- Patented PID recovery function

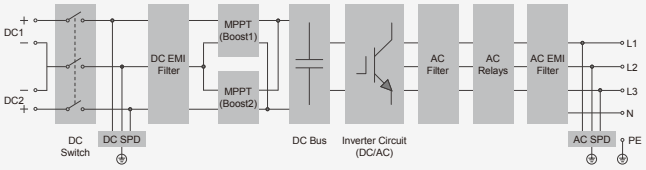
Easy O&M

- 20kg, easy O&M
  Plug and play design, easy installation
- String currrent monitoring function for fast trouble shooting
- Fast commissioning, easy local and on-line monitoring

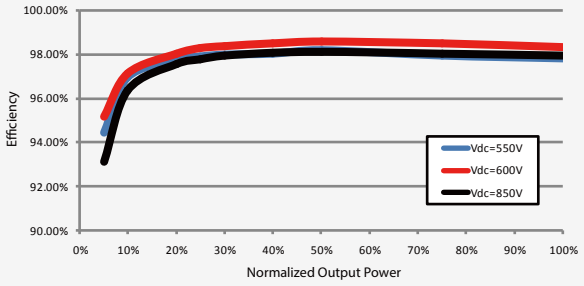
Safe and Reliable

- High power quality, no interference for electrical equipment
- Low radiation, compliance with household equipment standards
- High anti-corrosion with aluminum alloy die casting

Circuit Diagram



Efficiency Curve



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SG10KTL-M/SG12KTL-M

Input (DC)	SG10KTL-M	SG12KTL-M
Max. PV input voltage	1100 V	
Min. PV input voltage / Startup input voltage	200 V / 250 V	
Nominal input voltage	600 V	
MPP voltage range	200 V – 1000 V	
MPP voltage range for nominal power	470 V – 850 V	550 V – 850 V
No. of independent MPP inputs	2	
Max. number of PV strings per MPPT	1	
Max. PV input current (at 35 ˚C)	22A (11 A / 11 A)	
Max. current for input connector	15 A	
Max. DC short-circuit current	30 A (15 A / 15 A)	

Output (AC)		
Nominal AC power (at 45 ˚C)	10000 W	12000 W
Max. AC output power at PF=1 (at 35 ˚C)	11000 W	13200 W
Max. AC apparent power (at 35 ˚C)	11000 VA	13200 VA
Max. AC output current (at 35 ˚C)	16.5 A	20 A
Nominal AC voltage	3 / N / PE, 230 / 400 V	
AC voltage range	270 V – 480 V	
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz	
THD	< 3 % (at nominal power)	
DC current injection	< 0.5 % In	
Power factor at nominal power / Adjustable power factor	> 0.99 / 0.8 leading – 0.8 lagging	
Feed-in phases / Connection phases	3 / 3	

Efficiency	
Max. efficiency / Euro. efficiency	98.6 % / 98.1 %

Protection	
Islanding Protection	Yes
LVRT	No
DC reverse connection protection	Yes
AC short-circuit protection	Yes
Leakage current protection	Yes
Grid monitoring	Yes
DC switch / AC switch	Yes / No
PV string current monitoring	Yes
PID recovery function	Optional
Overvoltage protection	DC Type II / AC Type II

General Data		
Dimensions (W*H*D)	370*485*160 mm	
Weight	20 kg	
Isolation method	Transformerless	
Degree of protection	IP65	
Night power consumption	< 1 W	
Operating ambient temperature range	-25 to 60 ℃ (> 45 ℃ derating)	
Allowable relative humidity range (non-condensing)	0 – 100 %	
Cooling method	Natural cooling	
Max. operating altitude	4000 m (> 3000 m derating)	
Display / Communication	LED, Bluetooth + APP / RS485, (WiFi, E-Net optional)	
DC connection type	MC4 (Max. 6 mm²)	
AC connection type	Plug and play connector (Max. 6 mm²)	
Compliance	IEC/EN 62109-1, IEC/EN 62109-2,IEC/EN 61000-3-11, IEC/EN 61000-3-12,UTE C15-712-1, IEC 61727, IEC 62116, VDE0126-1-1/4105, G59/3	
Grid support	Active & reactive power control and power ramp rate control	
Type designation	SG10KTL-M-10	SG12KTL-M-10