

# SG10KTL-MT

Multi-MPPT String Inverter for 1000 Vdc System



#### High Revenue

- Max. efficiency 98.6%, European efficiency 98.1%
- 4 string inputs, flexible PV configuration



#### Easy Installation

- Plug and play connectors
- 24kg compact design



#### Safe and Reliable

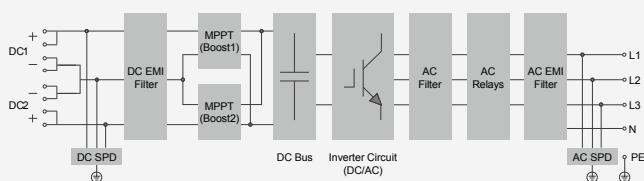
- High anti-corrosion with aluminum alloy die casting
- Built-in SPD and residual current protection



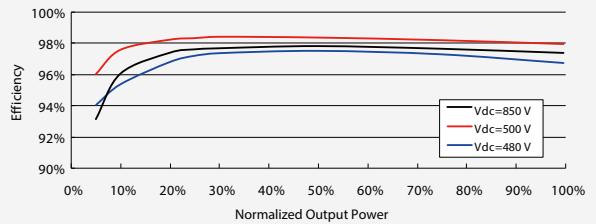
#### Smart Management

- Touch free commissioning and monitoring with smartphone
- One-click local and remote firmware update
- Export power control with smart energy meter

#### Circuit Diagram



#### Efficiency Curve



Input (DC)		SG10KTL-MT
Max. PV input voltage	1100 V	
Min. PV input voltage / Start-up input voltage	200 V / 250 V	
Nominal PV input voltage	600 V	
MPP voltage range	200 – 1000 V	
MPP voltage range for nominal power	320 – 850 V	
No. of independent MPP inputs	2	
Max. number of PV strings per MPPT	2	
Max. PV input current	44 A (22 A / 22 A)	
Max. current for input connector	15 A	
Max. DC short-circuit current	60 A (30 A / 30 A )	
Output (AC)		
AC output power	10000 VA @ 45 °C	
Max. AC output current	16.5 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		
DC reverse connection protection	Yes	
AC short-circuit protection	Yes	
Leakage current protection	Yes	
Grid monitoring	Yes	
PV string current monitoring	Yes	
Oversupply protection	DC Type II / AC Type II	
General Data		
Dimensions (W*H*D)	370*485*210 mm	
Weight	24 kg	
Isolation method	Transformerless	
Degree of protection	IP65	
Night power consumption	< 1 W	
Operating ambient temperature range	-25 to 60 °C (> 45 °C derating)	
Allowable relative humidity range (non-condensing)	0 – 100 %	
Cooling method	Smart forced air cooling	
Max. operating altitude	4000 m (> 3000 m derating)	
Display	LED, Bluetooth + APP	
Communication	RS485 / Optional: Wi-Fi, Ethernet	
DC connection type	MC4 (Max. 6 mm <sup>2</sup> )	
AC connection type	Plug and play connector (Max. 16 mm <sup>2</sup> )	
Compliance	EN 62109-1, EN 62109-2, IEC61000-6-2, IEC 61000-6-3, IEC 62116, AS 4777.2	
Grid Support	Active & reactive power control and power ramp rate control	

