

Technical Data



SGS 6000TL-US

SGS 7600TL-US

SGS 9000TL-US

SGS 010KTL-US

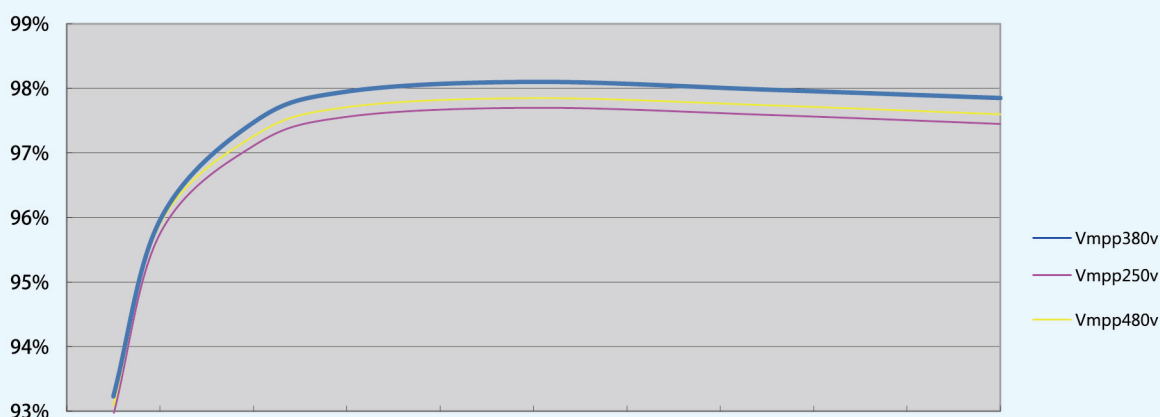
Features:

- > Max efficiency 98.1% CEC efficiency 97.5%
- > 3.5inch LCD screen display more information
- > Wide range of MPPT voltage
- > Dual MPPT
- > PV Input Type automatic configuration
- > Grid Type automatic configuration
- > Fan free design
- > TYPE 4X, can be used for outdoor or indoor installation
- > Quick and convenient installation
- > RS485, Ethernet and WIFI/GPRS communications (optional)
- > Single-channel MPPT maximum power imbalance of up to 6400 w, convenient for the customer according to roof configuration required for panels

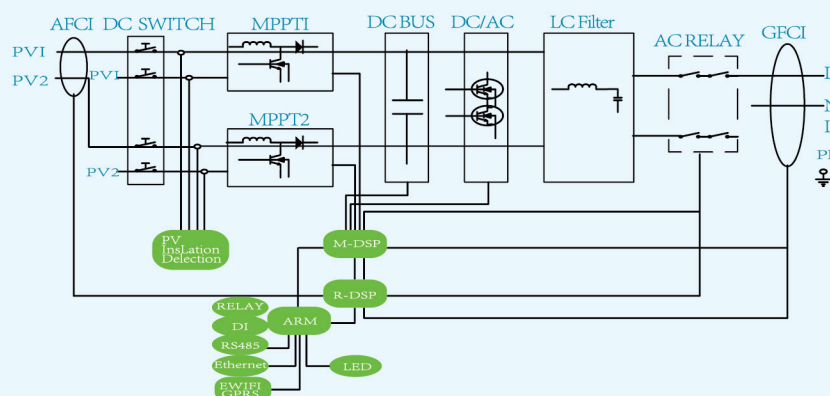
Certificates and Approvals:

UL1741, IEEE1547, FCC Part15 (Class,A&B), CSA22.2 No.107.1-1, UL1699B

Efficiency Curve (TRM030KTL):



Circuit Diagram:





SGS-US Series

SGS 6000TL-US / SGS 7600TL-US / SGS 9000TL-US / SGS 010KTL-US

Model	SGS6000TL-US	SGS7600TL-US		SGS9000TL-US	SGS010KTL-US
Input(DC)					
Max. DC power	6600 W	8400W		9900 W	11000 W
Maximum Usable Power for Each Channel	4800W	5400W		6400W	6400W
Max. input voltage	600V				
Rated MPP voltage range	200-500V	200-500V		200-500V	200-500V
MPP operating voltage range	80-520V	80-520V		80-520V	80-520V
Min. input voltage /initial input voltage	150V				
Max. input current for both MPPT in Parallel	34A	42A		50A	50A
Max. usable current per channel	25A	25A		25A	25A
Number of independent MPP inputs / strings per MPP input	2 / 3+3	2 / 3+3		2 / 3+3	2 / 3+3
Output (AC)					
Rated power (@ 240 V / 60 Hz)	6000 W	6600 W	7600 W	9000 W	10000 W
Nominal AC voltage / range	@208V/183-229V @240V/211-264V				
AC power frequency / range	60Hz/59.3-60.5Hz				
Rated grid voltage / rated power frequency	208V/60Hz 240V/60Hz				
Max. continuous output current	29A @208Vac 25A@240Vac	31.7A @208Vac	31.7A@240Vac	43A @208Vac 38A@240Vac	48A @208Vac 42A@240Vac
Power factor at rated power	1				
Efficiency					
Max. efficiency / CEC weighted efficiency	97.8%/97% @240Vac 97.8%/96.5% @208Vac	98% /97.0% @208Vac	98.1%/97.5% @240Vac	98.1%/97.5% @240Vac 98%/97.0% @208Vac	98.1%/97.5% @240Vac 98%/97.0% @208Vac
Temperature					
Operation Temperature range	-25℃ ~60℃				
Protective devices					
DC disconnect device / AC disconnect device	● / -				
Ground fault monitoring / grid monitoring	● / ●				
DC reverse polarity protection / AC short-circuit current capability	● / ●				
All-pole-sensitive residual-current monitoring unit	●				
Arc-fault circuit interrupter (according to UL 1699B)	Optional				
General data					
Dimensions (W / H / D)	610mm*455mm*248mm				
Weight	33Kg	33Kg	33Kg	34Kg	34Kg
Operating temperature range	-25-60℃				
Noise emission (typical)	<35	<35	<35	<35	<35
Self-consumption (night)	0W				
Topology	Transformerless				
Protection Rating	TYPE 4X				
Operating Altitude	<=2000m				
Cooling concept	Natural Convection	Natural Convection	Natural Convection	Natural Convection	Natural Convection
Features					
DC connection / AC connection	Screw terminal/Screw terminal				
Display	LCD				
Interface: RS485 / Wi-Fi / Ethernet	● / ● / ●				
Warranty: 10 / 15 / 20 / 25 years	● / ○ / ○ / ○				
Certificates and approvals (additional on request)	UL1741,IEEE1547,FCC Part15(Class,A&B),CSA22.2 No.107.1-1,UL1699B				