

# Suntrio-TL6K/8K/10K

## On-grid Three Phase Inverter

Dual MPPT



### Leading technology

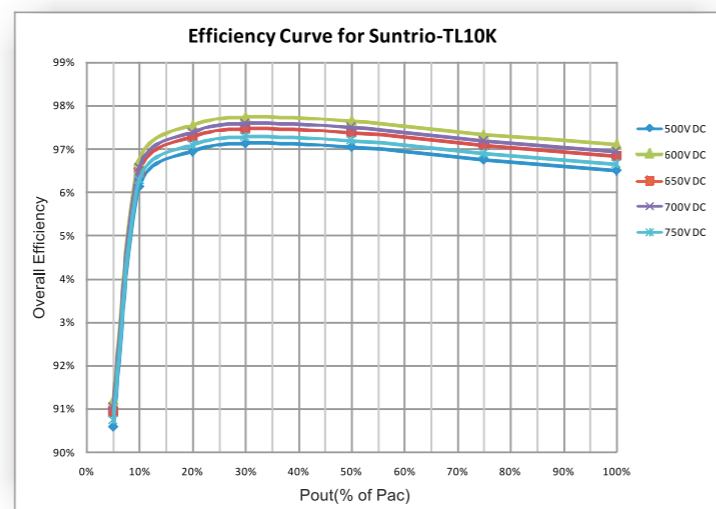
- Max. efficiency 98.1%
- MPPT accuracy up to 99.9% efficiency
- Compliant with VDE-AR-N 4105

### User-friendly

- 5 inch LCD display with comprehensive information
- Embedded webserver monitoring
- Easy installation

### Flexible

- Multi-country configuration
- RS485 / Ethernet / Wi-Fi communication
- Wide range of DC input voltage
- IP65 for indoor and outdoor



## Technical Data

### Suntrio-TL6K/8K/10K

Model	Suntrio-TL6K	Suntrio-TL8K	Suntrio-TL10K
<b>Input (DC)</b>			
Max. DC Power [W]	6300	8200	10400
Max. DC Voltage [V]		1000	
MPPT Voltage Range [V]		240~800	
Nominal DC Voltage [V]		600	
Start Voltage [V]		300	
Min. DC Voltage [V]		200	
Max. DC Input Current PV1 / PV2 [A]		16/16	
Number of MPPT		2	
String(s) per MPPT		2	
DC Switch		Optional	
<b>Output (AC)</b>			
Rated AC Power [W] (at 230V,50Hz)	6000	8000	10000
Max. AC Apparent Power [VA]	6000	8000	10000
Rated AC Current [A]	8.7	11.6	14.5
Max. AC Current [A]	9.7	12.9	15.8
Nominal AC Voltage / Range	3/N/PE , 220/380V , 230/400V , 240/415V ; 180V-280V/312V-485V		
Grid Frequency / Range	50Hz,60Hz / 44Hz-55Hz, 54-65Hz		
Power Factor (Adjustable)	0.9 leading~0.9 lagging		
Total Harmonic Distortion (THDi)	< 2% (at nominal power)		
Feed-in Phase / Connection Phase	3 / 3		
<b>Efficiency</b>			
Max. Efficiency	97.9%	97.9%	98.0%
Euro Efficiency (at 600Vdc)	97.3%	97.3%	97.5%
MPPT Accuracy	>99.5%		
<b>Protection</b>			
Internal Over-voltage Protection	Integrated		
DC Insulation Monitoring	Integrated		
DCI Monitoring	Integrated		
GFCI Monitoring	Integrated		
Grid Monitoring	Integrated		
AC Short Circuit Current Protection	Integrated		
Thermal Protection	Integrated		
Anti-island protection monitoring	AFD		
<b>Interface</b>			
DC Connection	H4 / MC4		
LCD Display	Graphic LCD Display, Backlight, Inverter Parameter and Data Display		
Display Language	Multi Language		
Datalogger & Communication	2* RS485, Ethernet (Webserver embedded), Wi-Fi (Optional)		
<b>General Data</b>			
Topology	Transformerless		
Consumption at Night [W]	<1		
Consumption at Standby [W]	<12		
Operating Temperature Range	-20°C to +60°C (45°C to 60°C with derating)		
Cooling Method	Fans		
Ambient Humidity	0% to 95% (Non-condensing)		
Altitude	Up to 2000m (without power derating)		
Noise [dBA]	<40		
Ingress Protection	IP65 (Indoor & Outdoor Installation)		
Mounting	Rear Panel		
Dimensions (W*H*D) [mm]	480*680*200		
Weight [kg]	35		
Standard Warranty [Year]	5 (Standard) / 10 (Optional)		
Certificates	AS4777, AS 3100, VDE0126-1-1 / A1, G83-2, C10 / 11, UTE C15-712-1, TF3.2.1, EN 50438, IEC 62116, IEC 61727, IEC61000-6-2 / 3, IEC 62109-1 / 2		