

On-grid Three Phase Inverter

Suntrio-TL12K/15K/17K/20K



■ Leading technology

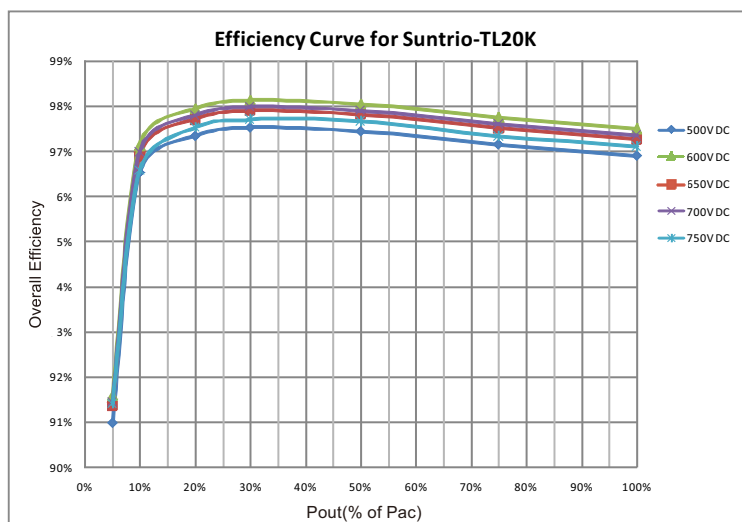
- Max. efficiency 98.1%
- MPPT accuracy up to 99.9% efficiency
- Compliant with VDE-AR-N 4105

■ User-friendly

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

■ Flexible

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



Model	Suntrio-TL12K	Suntrio-TL15K	Suntrio-TL17K	Suntrio-TL20K
Input (DC)				
Max. DC Power [W]	12500	15600	17700	20600
Max. DC Voltage [V]	1000			
MPPT Voltage Range of Full Load [V]	380-800	380-800	400-800	468-800
Nominal DC Voltage [V]	600			
Start Voltage [V]	300			
Min. DC Voltage [V]	200			
Max. DC Input Current PV1 / PV2 [A]	18/18	22/22	22/22	22/22
Number of MPPT	2			
String(s) per MPPT	2	3		
DC Switch	Optional			
Output (AC)				
Rated AC Power [W] (@230V,50Hz)	12000	15000	17000	20000
Max. AC Apparent Power [VA]	12000	15000	17000	20000
Rated AC Current [A]	17.4	21.7	24.6	29.0
Max. AC Current [A]	19.3	24.2	27.4	31.0
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 (cos φ)	0.9 leading~0.9 lagging			
Total Harmonic Distortion (THDi)	< 2% (at nominal power)			
Feed-in Phase / Connection Phase	3 / 3			
Efficiency				
Max. Efficiency	98.1%	98.1%	98.1%	98.1%
Euro Efficiency (at 600Vdc)	97.4%	97.5%	97.5%	97.5%
MPPT Accuracy	>99.5%			
Protection				
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			
Interface				
DC Connection	H4 / MC4			
LCD Display	Graphic LCD Display, Backlight, Inverter Parameter and Data Display			
Display Language	Multi Language			
Datalogger & Communication	Rs485 (Standard), Ethernet (Webserver embedded)			
General Data				
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]	<40dB (with fan<50dB)			
Ingress Protection	IP65 (Indoor & Outdoor Installation)			
Mounting	Rear Panel			
Dimensions (W*H*D) [mm]	480*680*200			
Weight [kg]	42			
Standard Warranty [Year]	5 (Standard) / 10/15/20/25 (Optional)			
Certificates	IEC62109-1/2, IEC61000-6-2/3, IEC62116, IEC61727, VDE0126-1-1/A1, G83/2, EN50438, VFR2014, UTE C15-712-1 , AS4777.2, AS4777.3, AS3100, G59/2, G59/3, C10/11, TF3.2.1, CQC NB/T32004			

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