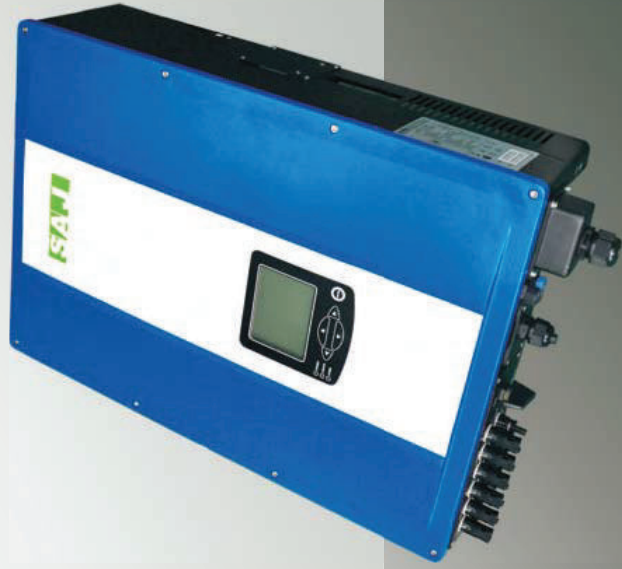


Suntrio-TL12K/15K/17K/20K



Leading technology

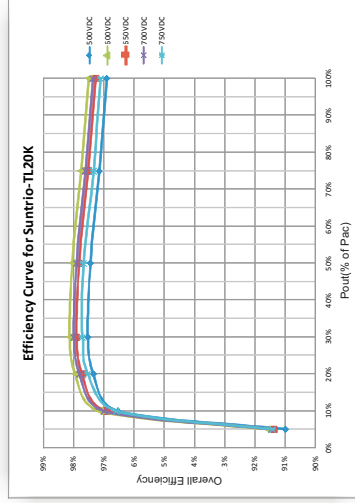
- Max. efficiency 99.1%
- MPPT accuracy up to 99.9% efficiency
- Compliant with VDE-AR-N 4105

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-TL5K/6K/8K/10K/12K/15K/17K/20K

Model	Suntrio-TL5K	Suntrio-TL6K	Suntrio-TL8K	Suntrio-TL10K
Input (DC)				
Max. DC Power [W]	5200	6300	8200	10400
Max. DC Voltage [V]				
MPPT Voltage Range [V]	1000	1000	1000	1000
Nominal DC Voltage [V]	600	200~800	600	600
Start Voltage [V]	250	250	250	250
Min. DC Voltage [V]	180	180	180	180
Max. DC Input Current PV1 / PV2 [A]	10/10	18/10	18/10	18/10
Number of MPPT	2	2	2	2
String(s) per MPPT	1/1	2/1	2/1	2/1
DC Switch		Optional		
Output (AC)				
Rated AC Power [W] (at 230V, 50Hz)	5000	6000	8000	10000
Max. AC Apparent Power [VA]	5000	6000	8000	10000
Rated AC Current [A]	7.2	8.7	11.6	14.5
Max. AC Current [A]	8.1	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		
Efficiency				
Max. Efficiency	97.9%	97.9%	97.9%	98.0%
Euro Efficiency (at 600Vdc)	97.3%	97.3%	97.3%	97.5%
MPPT Accuracy		>99.5%		
Protection				
Internal Over-voltage Protection	Integrated	Integrated	Integrated	Integrated
DC Insulation Monitoring	Integrated	Integrated	Integrated	Integrated
DCI Monitoring	Integrated	Integrated	Integrated	Integrated
GFCI Monitoring	Integrated	Integrated	Integrated	Integrated
Grid Monitoring	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Current Protection	Integrated	Integrated	Integrated	Integrated
Thermal Protection	Integrated	Integrated	Integrated	Integrated
Anti-island protection monitoring	AFD	AFD	AFD	AFD
Interface				
DC Connection		H4 / MC4		
LCD Display		Graphic LCD Display, Backlight, Inverter Parameter and Data Display		
Display Language		Multi Language		
Datalogger & Communication		Ethernet(Webserver embedded), WiFi(Optional),		
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		Natural Convection		Fans
Ambient Humidity		0% to 95% (Non-condensing)		
Altitude		Up to 2000m (without power derating)		
Noise [dBA]		<30		<40
Ingress Protection		IP65 (Indoor & Outdoor Installation)		
Mounting		Rear Panel		
Dimensions (W*H*D) [mm]		480*550*180		
Weight [kg]		25		
Standard Warranty [Year]		5 (Standard) / 10/15/20/25 (Optional)		
Certificates		AS 4777, AS 3100, VDE0126-1-1/A1, VFR 2013, VFR 2014, G83-2, G59-2, G59-3, C10 / 11, UTE C15-712-1, TF3.2.1, CEEN 50438, IEC 62116, IEC 61727, IEC61000-6-2 / 3, IEC 62109-1 / 2		

Model	Suntrio-TL12K	Suntrio-TL15K	Suntrio-TL17K	Suntrio-TL20K
Input (DC)				
Max. DC Power [W]	12500	15600	17700	20600
Max. DC Voltage [V]				
MPPT Voltage Range [V]	1000	1000	1000	1000
Nominal DC Voltage [V]	600	240~800	600	600
Start Voltage [V]	300	300	300	300
Min. DC Voltage [V]	200	200	200	200
Max. DC Input Current PV1 / PV2 [A]	18/18	22/22	22/22	22/22
Number of MPPT	2	2	2	2
String(s) per MPPT	3	3	3	3
DC Switch		Optional		
Output (AC)				
Rated AC Power [W] (at 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]	19.0	25.0	27.0	29.0
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)	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	Integrated	Integrated	Integrated
DC Insulation Monitoring	Integrated	Integrated	Integrated	Integrated
DCI Monitoring	Integrated	Integrated	Integrated	Integrated
GFCI Monitoring	Integrated	Integrated	Integrated	Integrated
Grid Monitoring	Integrated	Integrated	Integrated	Integrated
AC Short Circuit Current Protection	Integrated	Integrated	Integrated	Integrated
Thermal Protection	Integrated	Integrated	Integrated	Integrated
Anti-island protection monitoring	AFD	AFD	AFD	AFD
Interface				
DC Connection		H4 / MC4		
LCD Display		Graphic LCD Display, Backlight, Inverter Parameter and Data Display		
Display Language		Multi Language		
Datalogger & Communication		RS485, Ethernet (Webserver embedded), Wi-Fi (Optional)		
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		AS 4777, AS 3100, VDE0126-1-1/A1, VFR 2013, VFR 2014, G59-2, G59-3, C10 / 11, UTE C15-712-1, CE, TÜV, CCC NB/3204(2013), TF3.2.1, EN 50438, IEC 62116, IEC 61727, IEC61000-6-2 / 3, IEC 62109-1 / 2		