

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

On-grid Three Phase Inverter

Main Features

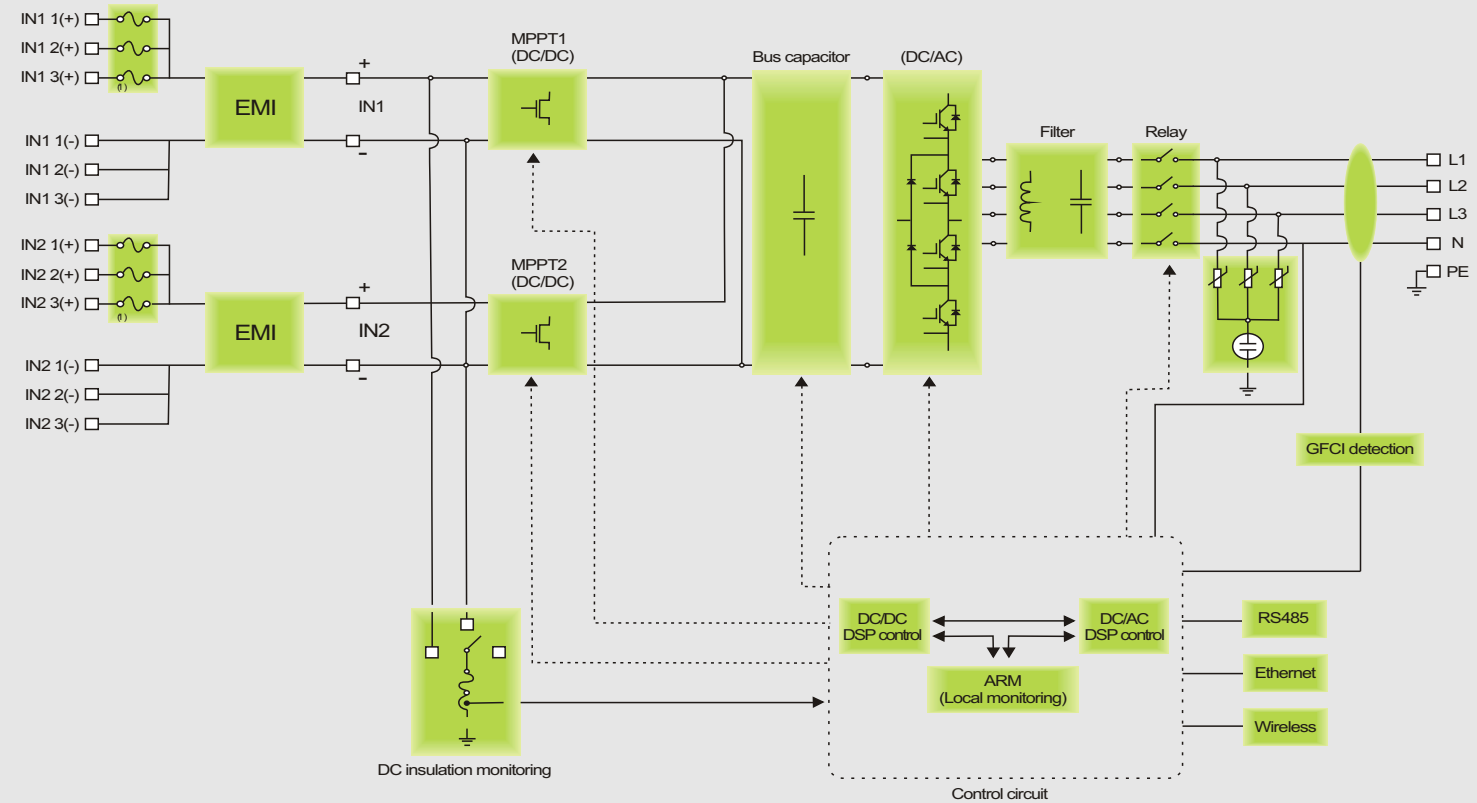
- Dual independent MPP trackers for Max. installation flexibility.
- Space Vector PWM to maximize efficiency and minimize EMI.
- Highest MPP tracking performance, up to 99.9% efficiency.
- Transformerless design with 98.1% Max. efficiency.
- Ethernet RJ45/Wi-Fi option for easy internet network configuration.
- Integrated Web Server for overall performance monitoring.
- Compliance with VDE-AR-N 4105 with reactive power control.

LCD Display Features

- 5-inch large LCD display.
- LCD day/month/year/total yield graphs display.
- Event history lookup.
- Easy operation with 5 navigation buttons.



CE VDE 0126-1-1/A1 VDE 4105 G59 RD1699 C10/11 AS4777.3 EN50438



Type	Suntrio-TL12K	Suntrio-TL15K	Suntrio-TL17K	Suntrio-TL20K
Input (DC)				
Max. DC Power [W]	12500	15600	17700	20600
Max. DC Voltage [V]	950			
MPPT Voltage Range(at rated power) [V]	380~800	380~800	400~800	460~800
Nominal DC Voltage	640			
Start DC Voltage[V]	300			
Minimum DC Voltage[V]	250			
Max. Input Current Input A/ Input B [A]	18/18	22/22	22/22	22/22
Number of DC Connection Sets	2/2	3/3	3/3	3/3
Number of MPP Trackers	2			
DC Switch	Optional			
Power Consumption at Standby [W]	<12			
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]	19.0	25.0	27.0	29.0
AC nominal voltage/ range	3/N/PE,220/380V,230/400V,240/415V;180V-280V/312V-485V			
AC grid frequency/ range	50Hz,60Hz /44Hz-55Hz,54-65Hz			
AC Current Distortion (THDi)	< 3%(at nominal power)			
Power factor,adjustable	0.9 leading~0.9 lagging			
Power Consumption at Night [W]	<1			
Efficiency				
Max. Efficiency	98.1%	98.1%	98.1%	98.1%
Euro Efficiency (at 640Vdc)	97.4%	97.5%	97.5%	97.5%
MPPT Accuracy	>99.5%			
Protection				
Internal Overvoltage Protection	Integrated			
DC Insulation Monitoring	Integrated			
Direct Current Monitoring	Integrated			
Ground Fault Current Monitoring	Integrated			
Grid Monitoring	Integrated			
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,Ethernet(Webserver embedded), Wi-Fi(Optional),			
Device Data				
Isolation	Transformerless			
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			
Site Altitude	Up to 2000m without power derating			
Noise Emission (dBA)	<45dB(with fan<50dB)			
IP Protection	IP65			
Dimensions (WxHxD) [mm]	480×680 ×200			
Weight [kg]	42			
Standard Warranty (Year)	5 / 10 (Optional)			
Safety Class Compliance	AS3100, IEC62109-1, IEC62109-2			
EMC Compliance	EN61000-6-2,EN61000-6-3,EN61000-3-11,EN61000-3-12			
Grid Protection Compliance	VDE 0126-1-1/A1,VDE 4105, G59,RD1699, C10/11,AS4777.3,EN50438,CGC/CF004			