

Technical Data



TRB4000TL
TRB5000TL
TRB6000TL
TRB8000TL
TRB9000TL

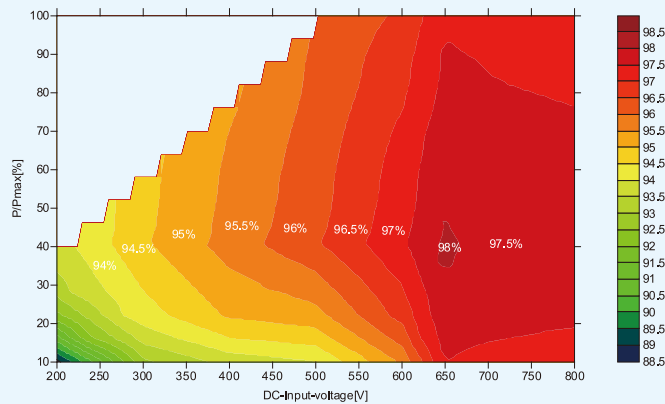
Features:

- > Max efficiency 98.1%
- > Film capacitor design to assure long lifecycle
- > Fanless cooling design
- > Low noise, extremely silent
- > IP65 protection against water and dust
- > Wide range of input DC and MPPT voltage

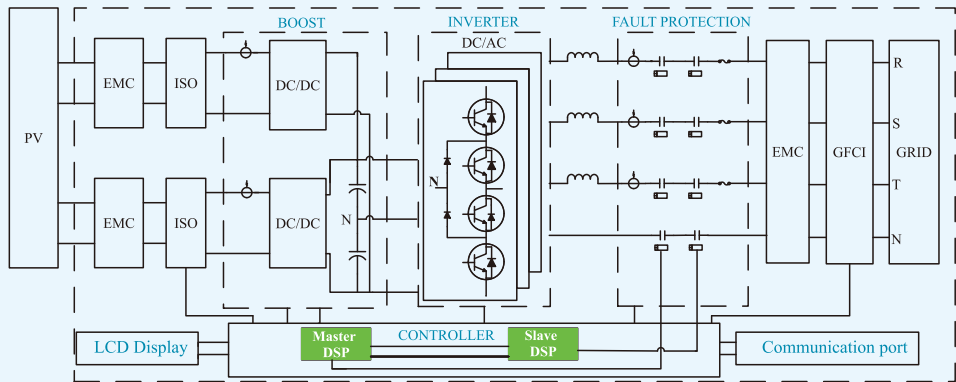
Certificates and Approvals:

CE, VDE AR-N-4105, VDE 0126-1-1+A1, G83/2, G59/2, G59/3, AS4777, ENEL, RD1663, IEC61727, UTE C15-712, MEA, PEA, CQC, NB/T32004-2013, ROHS, REACH

Efficiency Curve:



Circuit Diagram:



TRB Series

TRB4000TL / TRB5000TL / TRB6000TL / TRB8000TL / TRB9000TL

Model	TRB4000TL	TRB5000TL	TRB6000TL	TRB8000TL	TRB9000TL
Rated AC power	4000 W	5000 W	6000 W	8000 W	9000 W
Maximum AC power	4000 VA	5000 VA	6000 VA	8000 VA	9000 VA
Input					
Maximum input power	4250 W	5250 W	6300 W	8400 W	9450 W
Maximum input voltage	1000 Vdc	1000 Vdc	1000 Vdc	1000 Vdc	1000 Vdc
MPP voltage range / rated input voltage	200 - 800 Vdc / 640 V	200 - 800 Vdc / 640 V	200 - 800 Vdc / 640 V	200 - 800 Vdc / 640 V	200 - 800 Vdc / 640 V
Maximum input current	10 Adc / 10 Adc	10 Adc / 10 Adc	10 Adc / 10 Adc	10 Adc / 10 Adc	10 Adc / 10 Adc
Startup voltage	180 Vdc	180 Vdc	180 Vdc	180 Vdc	180 Vdc
DC switch	integrated	integrated	integrated	integrated	integrated
Initial feeding voltage	210 Vdc	210 Vdc	210 Vdc	210 Vdc	210 Vdc
Number of inputs	1+1	1+1	1+1	1+1	1+1
MPPT number	2	2	2	2	2
Output					
Nominal AC grid	3 / N / PE;220 / 380 V / 3 / N / PE; 230 / 400 V / 3 / N / PE; 240 / 415 V				
Voltage range	310 Vac - 470 Vac (May vary as per corresponding country's grid standard)				
Frequency range	50 Hz, 60Hz / -5 Hz ... +5 Hz				
Power factor	Rated >0.99 0.9 leading...0.9 lagging controllable				
Maximum current	7 Aac	8,5 Aac	10 Aac	12,5 Aac	14 Aac
DC current injection	< 20 mA	< 20 mA	< 20 mA	< 20 mA	< 20 mA
Current Harmonic Distorsion(THDi)	< 3%	< 3%	< 3%	< 3%	< 3%
System					
Maximum efficiency	> 98,1%	> 98,1%	> 98,1%	> 98,1%	> 98,1%
European efficiency	> 97,4%	> 97,4%	> 97,4%	> 97,6%	> 97,6%
MPPT efficiency	>99,5%	>99,5%	>99,5%	>99,5%	>99,5%
Topology	transformerless	transformerless	transformerless	transformerless	transformerless
Anti-Islanding protection	Yes	Yes	Yes	Yes	Yes
Night power consumption	< 0,2 W	< 0,2 W	< 0,2 W	< 0,2 W	< 0,2 W
Detecting earth leakage	Yes	Yes	Yes	Yes	Yes
Cooling	convection				
Mechanical Spec.					
Dimensions in mm	540 x 190 x 470				
Weight	23 Kg	23 Kg	23 Kg	24 Kg	24 Kg
IP degree	IP65				
Display	LCD 3,5 inch				
Function key	4				
Data interface	RS232 / RS485 / WiFi / GPRS / USB				
Thermal protection	Yes				
Audible noise level	< 35dB				
Ambient operating temp	-25°C - +60°C (> 45°C derating)				
Casing	Aluminium				