

Technical Data



TRB4000TL
TRB5000TL
TRB6000TL
TRB8000TL
TRB9000TL

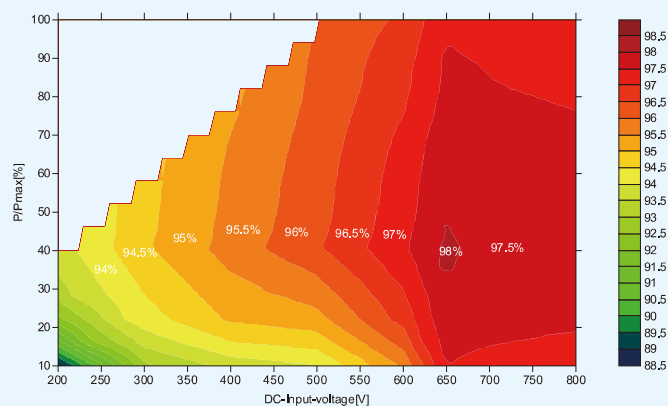
Features:

- > 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

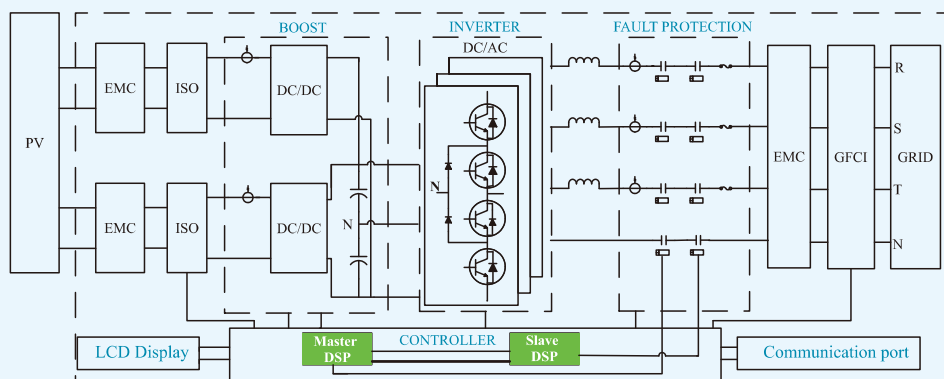
Certificates and Approvals:

CE, VDE AR-N-4105, VDE 0126-1-1+A1, G83/2, G59/2, UTE C15-712, ROHS, REACH, AS4777

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 DC voltage in an open circuit	1000 Vdc	1000 Vdc	1000 Vdc	1000 Vdc	1000 Vdc
MPP voltage range / rated input voltage	200 - 800 Vdc / 240 Vdc	200 - 800 Vdc / 300 Vdc	200 - 800 Vdc / 350 Vdc	200 - 800 Vdc / 460 Vdc	200 - 800 Vdc / 520 Vdc
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					
Operating voltage	220 Vac / 380 Vac or 230 Vac / 400 Vac				
Number of grid phases	3	3	3	3	3
Voltage range	180 - 270 Vac / 310 Vac - 470 Vac				
Frequency range	50 Hz, 60Hz / -5 Hz ... +5 Hz				
Power factor	-0,9 - 0,9 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%
MPPT efficiency	> 99,9%	> 99,9%	> 99,9%	> 99,9%	> 99,9%
European efficiency	> 97,4%	> 97,4%	> 97,4%	> 97,6%	> 97,6%
Switching plan	self-commutated, transformerless				
Off-grid 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
Heat dissipation	convection				
Mechanical Spec.					
Dimensions in mm	540 x 190 x 470				
Weight	23 Kg	23 Kg	23 Kg	24 Kg	24 Kg
Protection class	IP65				
Display	LCD 3,5 inch				
Function key	4				
Data interface	RS232 / RS485 / Ethernet / WiFi / GPRS / USB				
Thermal protection	Yes				
Noise emission	< 35dB				
Ambient operating temp	-25°C - +60°C (> 45°C derating)				
Casing	aluminium				