

Technical Data



TRM030KTL
TRM033KTL

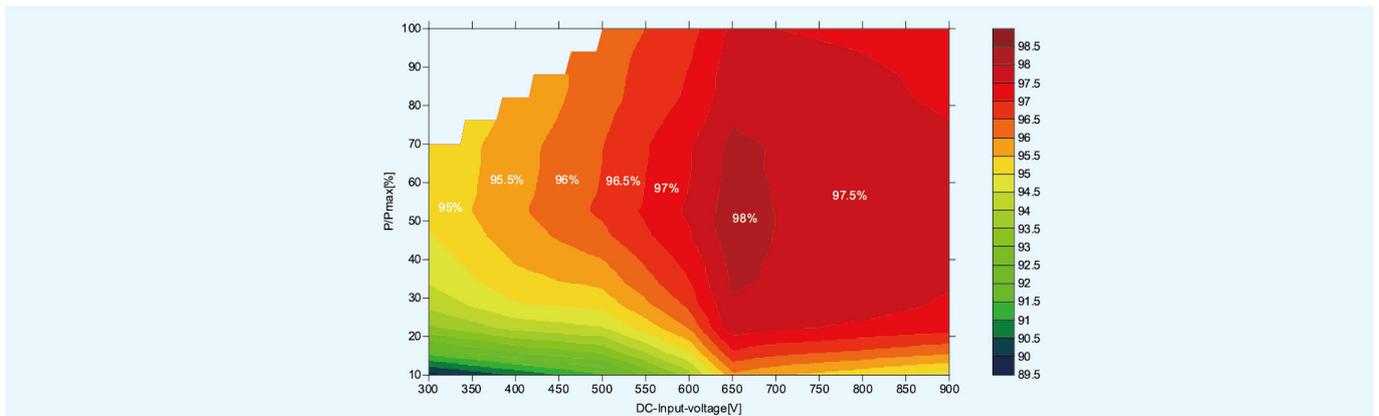
Features:

- > Max efficiency 98.5%
- > Internal DC switch, fuse, and surge protection
- > Small footprint, easy installation
- > Dual MPPT
- > Reactive / Active power control
- > Able to display at night

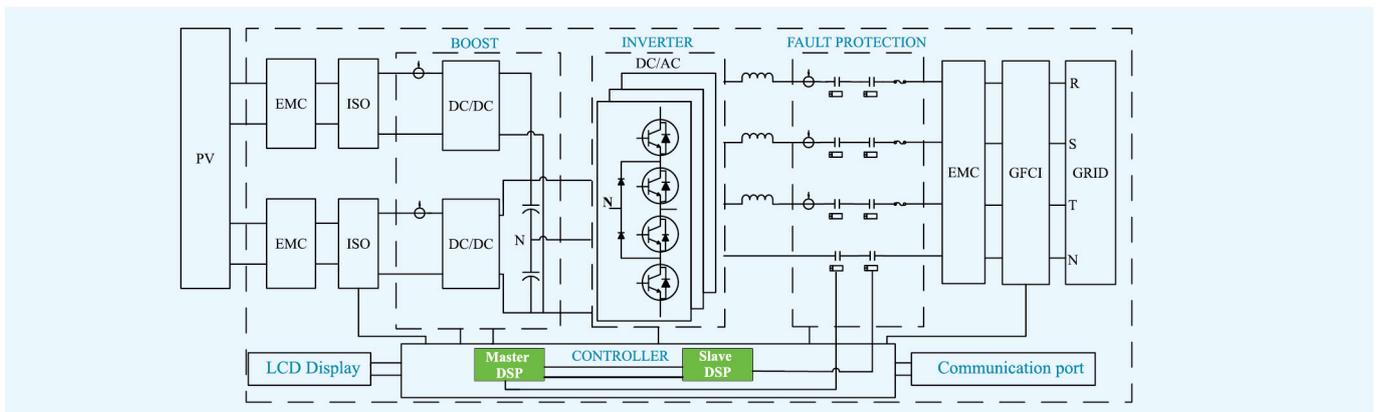
Certificates and Approvals:

CE, NB/T32004-2013(CQC), VDE AR-N-4105, VDE 0126-1-1+A1, G83/1, G83/2, G59/2, G59/3, EN50438, AS4777(SAA), CEI 0-21, RD1663, IEC61727, ROHS, REACH

Efficiency Curve (TRM030KTL):



Circuit Diagram:



TRM Series

TRM030KTL / TRM033KTL

Model	TRM030KTL	TRM033KTL
Rated AC power	30000 W	33000 W
Maximum AC power	30000 VA	33000 VA
Input		
Maximum input power	32000 W	35000 W
Maximum DC input voltage	1000 Vdc	1000 Vdc
MPPT operating voltage range	250 - 800 Vdc	250 - 800 Vdc
Startup voltage	200 Vdc	200 Vdc
Initial feeding voltage	300 Vdc	300 Vdc
MPPT number	2	2
Maximum input current	30 Adc / 30 Adc	30 Adc / 30 Adc
Number of DC inputs	3+3	3+3
DC switch	Integrated	Integrated
Output		
AC nominal voltage	3N - PE 400 Vac	
AC connection	Three phase	
AC voltage Range	310 Vac - 470 Vac	
Frequency range	50 Hz, 60Hz / -5 Hz ... +5 Hz	
Power factor	> 0.99, 0.8 leading...0.8 lagging controllable	
Maximum output current	45.5 Aac	48 Aac
DC current injection	< 2.5‰	< 2.5‰
THDi	< 3%	< 3%
System		
Maximum efficiency	> 98.5%	> 98.5%
European efficiency	> 98%	> 98%
MPPT efficiency	> 99.9%	> 99.9%
Night power consumption/Night display	< 0.2 W/Optional	< 0.2 W/Optional
Topology	Transformerless	
Heat dissipation	Smart Fan cooling	
Insulation monitoring	Yes	
DC reverse-polarity protection	Yes	
AC over current protection	Yes	
Anti-Islanding protection	Yes	
Residual current detection	Yes	
Thermal protection	Yes	
General Parameters		
Dimensions(W×H×D)	590 x 230 x 780 mm	
Weight	47 kg	47 kg
Display	3.5 inch LCD	
Function key	4	
Data interface	RS232 / RS485/ RS422 / Ethernet / WiFi / GPRS / USB	
Ambient temperature range	-25°C - +60 °C	
Operating altitude	< 2000m	
Protection degree	IP65	
Noise emission	< 45dB(<55dB with Fan)	
Warranty	Standard 5 years 10/15/20/25 years extension optional	
Certifications		
Safety/EMC	IEC62109-1, IEC62109-2, EN61000-6-2, EN61000-6-3	
Grid code	G59/3,NB/T-32004	