

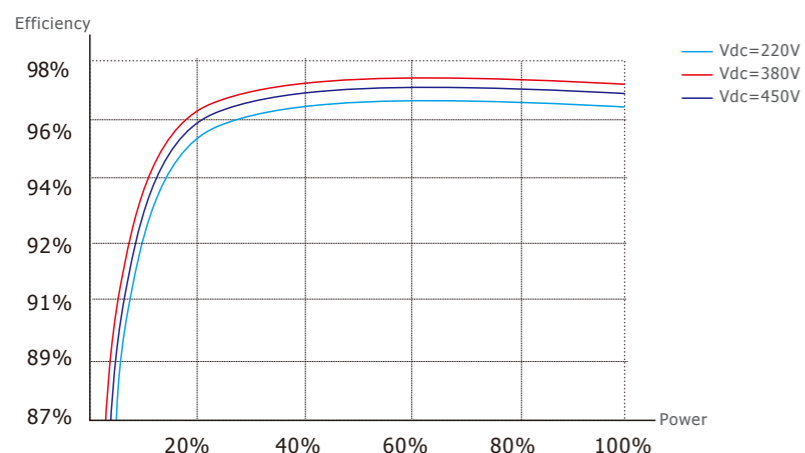


FEATURES

- Dual MPP independent tracking, more flexible for system installation.
- Wide MPP voltage range, flexible configuration.
- IP65 enclosure protection level, outdoor & indoor use.
- Natural cooling, low noise.
- Multiple communication ports: RS485 / Ethernet / WiFi modes.
- Complete fault diagnosis, protection, record and searching, etc.
- Large graphic LCD display with support for multiple languages.
- Transformerless, compact, small, lightweight, easy to install.

Transformerless Dual MPPT PV Inverter PV5KMTL

PV5KMTL Efficiency Curves:



Technical Parameters - PV5KMTL

INPUT (DC)

Maximum Power	5400 W
Maximum Voltage	550 V
Voltage Range	250 V - 450 V
Recommended Open Circuit Voltage	480 V
Maximum Current	2 × 11 A
MPP Voltage Range	250 V - 450 V
MPP Trackers	2
Strings per MPP Tracker	2
MPPT Efficiency	99.90%
Over-voltage Category	II
Backfeed Current	0 A
PV Short Circuit Current	2 × 12.5 A

OUTPUT (AC)

Rated Power	5000 W
Max. AC Apparent Power	5000 VA
Rated Voltage	220 V / 230 V / 240 V
AC Voltage Range	Un ± 10%
Rated Current	22.7 / 21.8 / 20.8 A
Max. AC Output Current	24.2 / 24.2 / 23.2 A
Grid Frequency	50 Hz
Grid Frequency Range	47 Hz - 51.5 Hz
Total Harmonic Distortion of Current (THDI)	< 2%
DC Current Component	< 0.5% (Rated Output Current)
Power Factor	-0.95 to +0.95 (Rated Power)
Grid Connection Type	Single Phase
Over Voltage Category	III

EFFICIENCIES

Maximum Efficiency	97.8%
European Efficiency	97.2%
Nighttime Loss	0 w

INTERFACE AND COMMUNICATION

Communication Modes	RS-485 / Ethernet / Wi-Fi (optional)
Display	LCD Widescreen Display

SAFETY

Isolation Level	Transformerless
Safety Standard	AS3100, IEC62109-6-3, IEC62109-2, CNCA/CTS0004
EMC Standard	EN61000-6-2, EN61000-6-3, EN61000-3-2, EN61000-3-3
Grid Standard	VDE 0126-1-1 / A1, VDE-AR-N4105, AS4777.2 / 3, NB / T32004, RD1699, UTE C15-712-1, G83-2, G59-3, EN50438

MECHANICAL SPECIFICATIONS

Dimensions (H x W x D)	363.0 mm x 577.0 mm x 155.0 mm
Weight	< 23.6 kg
Audible Noise	< 40dB (A)
Enclosure Protection Class	IP65
Cooling	Natural Cooling

PROTECTIONS FOR OPERATIONAL ENVIRONMENT

Operating Ambient Temperature	-25 °C to + 60 °C (Derating from 50 °C)
Relative Humidity	4% - 100% (Condensation)
Altitude	2000 m
Operating Ambient	Outdoor
UV Protection Function	Yes
Protection function	Input Over Voltage Protection, DC Insulation Monitoring, DC Component Monitoring, Ground Fault Monitoring, Grid Monitoring, Islanding Protection, Short Circuit Protection, Over Temperature Protection.