

TN3-20.0

- High Reliability
- High Efficiency
- Operating at Harsh Environment
- Smart and Easy Monitoring
- Fast and Easy Installation
- Parallel MPPT Mode
- 5 Years Guarantee and 20 Years After-Sale Responsibilities



DC Input Data	
Max. Recommended PV Generator Power	30 kW
MPP Voltage Range at Rated Power	308 - 850 V
Operating Range	150 - 1000 V
Rated Input Voltage / Start Voltage	610 V / 180 V
Max. N_Load Input Voltage	1100 V
Number of Independent MPP Inputs	2
Number of PV Strings Per MPPT	2 / 2
Max. PV Input Current	40 A / 40 A
Max. DC Short-Circuit Current	55 A / 55 A
AC Output Data	
Rated AC Output Power	20 kW
Max. AC Output Apparent Power	20.4 kVA
Rated AC Voltage	230 V / 400 V (3/3-N-PE)
AC Voltage Range (Ph-N)	180 - 265 VAC
Rated Frequency (Range)	50 Hz / 60 Hz (± 5 Hz)
Max. AC Output Current	32 A(rms)
Power Factor at Rated Power/Adjustable Power Factor	> 0.99 0.8 Leading & 0.8 Lagging
Total Harmonic Distortion (THD)	< % 3
Connection Phases	3 Ph

General Data	
Max. Efficiency	97.8 %
European Efficiency	97.5 %
Standby Consumption	< 1 W
Topology	Transformerless
Operating Ambient Temperature	-25 °C to 60 °C (Derating: Over 45 °C)
Relative Humidity (Non-Condensing)	0 – 100 %
Max. Operating Altitude	3000m
Cooling Method	Active Cooling
Display	LCD + LED Indicator
Communication	RS485/ Optional: Wi-Fi/ 4G Dongle
Degree of Protection (Acc. to IEC60529)	IP65
Mounting Method	Wall-Mounting Bracket
Dimensions (W×H×D)	452×565×203 mm
Weight	≈ 21.8 kg
Noise Emission	< 44 dB (A)
Protection and Function	
Grid Monitoring	Yes
DC Reverse Polarity Protection	Yes
AC Short-Circuit Protection	Yes
Leakage Current Protection	Yes
Surge Protection	DC: Type II; AC: Type II
Ground Fault Monitoring	Yes
DC Switch	Yes
PV String Current Monitoring	Yes
LVRT	Optional
HVRT	Optional
Standards Compliance	
Safety	IEC 62109-1:2010, IEC 62109-2:2011
Grid Connection	IEC 61727:2004, IEC 62116:2014 VDE-0126-1-1:2013 VDE-AR-N4105:2011
Electromagnetic Compatibility	IEC 61000-6-1/-2/-3/-4 IEC 61000-3-2/-3/-11/-12

