

D3000

High efficiency single phase inverters with Wi-Fi - Perfect choice for TESUP Wind Turbines and residential PV systems

Versatile applications

- Aluminium housing ensures long lasting protection against moisture and corrosion
- Wide input voltage range (30-600 V)
- Ultra low startup voltage at 35 V
- Suitable for indoor and outdoor applications (IP65)
- Compact design for simplified installation
- Low noise emission <20 dB(A)
- Built-in Wi-Fi communication

Maximum profitability

- Peak efficiency of 97.5%
- Fanless design
- 2 MPP trackers
- Commissioning via Wi-Fi connection

www.tesup.co.uk

3.0 kVA wind and solar inverter

Technical data D3000

INPUT (DC)	D3000
Max. recommended PV power	3.6 kW_P
Maximum power	3.19 kW
Voltage range	30 ... 600 V
MPP operating voltage range	30 ... 550 V
Voltage range for maximum power	180 ... 500 V
Max. current	11 A each MPP / 18 Adc total
Max. number of MPP trackers	Parallel inputs: 1 MPP tracker Separate inputs: 2 MPP trackers

OUTPUT (AC)	
Maximum apparent power	3 kVA [1) 2)]
Nominal apparent power	3 kVA
Voltage range	230 -20%/+22%, 1 Phase (L, N, PE) [2)]
Nominal current	14.3 A
Nominal frequency	50 / 60 Hz
Frequency range	50 / 60 Hz ± 5 Hz [2)]
Power factor adjustable	0.8 cap ... 0.8 ind
Total harmonic distortion (THD)	< 3 % @ nominal apparent power

GENERAL SPECIFICATION	
Model name	D3000_220
Part number Delta	RPI302H220000
Max. efficiency	97.5%
Efficiency EU	96.8%
Operating temperature	-25 ... +60 °C
Nominal power without derating	-25 ... +40 °C
Storage temperature	-25 ... +60 °C
Humidity	0 ... 95% non-condensing
Max. operating altitude	2000 m (above sea level)
Standard guarantee	5 years (guarantee extension available upon request)

MECHANICAL DESIGN	
Size (H x W x D)	318 × 380 × 130 mm
Weight	10 kg
Cooling	Convection cooling
AC connector	Wieland RST 25I3S (96.031.4154.3)
DC connector	2 pair Multi-Contact MC4
Communication interfaces	Wi-Fi
DC disconnector	Integrated
Display	Data visualization via mobile device app

SAFETY / STANDARDS	D3000
Protection degree	IP65
Safety class	I
Configurable trip parameters	Yes
Insulation monitoring	Yes
Overload behavior	Current limitation; power limitation
Anti-islanding protection / Grid regulation	VDE 0126-1-1; VDE-AR-N 4105; EN 50438 2013:Netherlands
EMC	EN61000-6-2; EN61000-6-3
Safety	IEC62109-1 / -2; CE compliance

1) Cos Phi = 1 (VA = W)
2) AC voltage and frequency range will be programmed according to the individual country requirements.

