



## RPI H3

High efficiency single phase transformerless inverters for the European market -  
Perfect choice for residential PV systems

### Versatile applications

- Aluminium housing ensures long lasting protection against moisture and corrosion
- Wide input voltage range
- Suitable for indoor and outdoor applications (IP65)
- Compact design for simplified installation

### Maximum profitability

- Peak efficiency of 97 %
- Fanless design for reduced maintenance costs
- Affordable residential inverter with all essential functions and reliable performance

# 3.0 kVA transformerless solar inverters

## Technical data RPI H3

INPUT (DC)	RPI H3
Max. recommended PV power	3.78 kW <sub>p</sub>
Max. power	3.2 kW
Nominal power	3.15 kW
Voltage range	125 ... 600 V <sup>1)</sup>
MPP operating voltage range	125 ... 550 V
Startup voltage	150 V
Voltage range for maximum power	320 ... 500 V
Max. current	10 A
Number of MPP trackers	1

### OUTPUT (AC)

Maximum apparent power	3 kVA <sup>2)</sup>
Nominal apparent power	3 kVA <sup>2)</sup>
Voltage range	230 -20%/+22%, 1 Phase (L, N, PE or L, L, PE) <sup>3)</sup>
Nominal current	13 A
Nominal frequency	50 / 60 Hz
Frequency range	50 / 60 Hz ± 5 Hz <sup>3)</sup>
Power factor adjustable	0.8 cap ... 0.8 ind
Total harmonic distortion (THD)	< 3 % @ nominal apparent power

### GENERAL SPECIFICATION

Model name	RPI H3_110
Part number Delta	RPI302N63E0000
Max. efficiency	97.0 %
Efficiency EU	96.2 %
Operating temperature	-25 ... +60 °C
Full 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

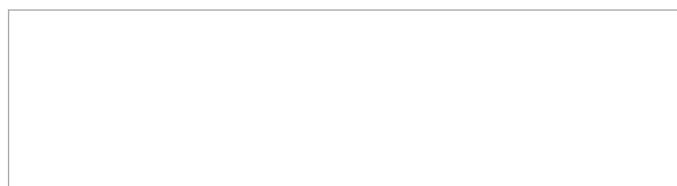
Size (H x W x D)	367 x 420 x 157 mm
Weight	15 kg
Cooling	Natural convection
AC connector	Wieland RST25i3S B1G M01
DC connector	2 pairs of Multi-Contact MC4
Communication interfaces	2 x RS485, 1 x dry contact, 4 x digital inputs
DC disconnecter	Integrated
Display	2 LEDs, 2-line LCD

SAFETY / STANDARDS	RPI H3
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; Synergrid C10/C11 06/2012 / VDE 126 A1; VFR 2013 / 2014; VDE 16 1-1 A1; UTE 15-712; French Islands 50 Hz/60 Hz; EN 50438 2013; Netherlands; UK G83-2
EMC	EN61000-6-2; EN61000-6-3
Safety	IEC62109-1 / -2; CE compliance

1) No risk of electrical damage till 630 V

2) Cos Phi = 1 (VA = W)

3) AC voltage and frequency range will be programmed according to the individual country requirements.



### United Kingdom

Email: [sales.uk@solar-inverter.com](mailto:sales.uk@solar-inverter.com)

Tel: 0800 051 4280 (Free Call)

### International

Email: [sales.europe@solar-inverter.com](mailto:sales.europe@solar-inverter.com)

Tel: +49 7641 455 547