



RPI M8A

High efficiency 3-phase transformerless inverters for the European market -
Perfect choice for residential or small commercial 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 – exceptional power density-to-size ratio

Maximum profitability

- Peak efficiency of 98.3 %
- Fanless design for reduced maintenance costs
- 2 MPP trackers for system design flexibility and maximum yield

8.0 kVA transformerless solar inverters

Technical data RPI M8A

INPUT (DC)	RPI M8A
Max. recommended PV power	10 kW _p
Nominal power	8.6 kW ¹⁾
Voltage range	200 ... 1000 V
Startup voltage	250 V
Full power MPP range	415 ... 800 V
Max. current	20 A (10 A per MPP tracker)
Max. number of MPP trackers	Parallel inputs: 1 MPP tracker Separate inputs: 2 MPP trackers
Input load	Symmetrical

OUTPUT (AC)	
Nominal apparent power	8 kVA ¹⁾
Voltage range	3 x 230 / 400 V (± 20%) ²⁾ 3 / PE or 3 / N / PE
Nominal current	11.6 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	RPI M8A
Part number Delta	RPI802FA0E1000
Max. efficiency	98.3 %
Efficiency EU	97.9 %
Operating temperature	-25 ... +60 °C
Full power without derating	-25 ... +40 °C
Storage temperature	-25 ... +60 °C
Humidity	0 ... 95 %
Max. operating altitude	2000 m (above sea level)
Standard guarantee	5 years (guarantee extension available upon request)

MECHANICAL DESIGN

Size (L x W x D)	510 × 445 × 117 mm
Weight	24.5 kg
Cooling	Convection cooling
AC connector	Amphenol C16-3
DC connector	2 pairs of Multi-Contact MC4
Communication interfaces	2 x RJ45 / RS485
DC disconnecter	Integrated
Display	2 LEDs, 4-line LCD

SAFETY / STANDARDS	RPI M8A
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
EMC	EN61000-6-2; EN61000-6-3; EN61000-3-2; EN61000-3-3
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.

International

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