



RPI M15A

High efficiency 3-phase solar inverters for the European market - Perfect choice for large-scale solar PV systems, such as those used in the commercial or agricultural sectors.

Versatile applications

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

Maximum profitability

- Peak efficiency of 98.3 %
- 2 MPP trackers for increased flexibility and maximum yield
- Symmetrical and asymmetrical loading possible (33/67 %)
- Improved thermal performance at high ambient temperature

15 kVA transformerless solar inverters

Technical data RPI M15A

| INPUT (DC) | RPI M15A |
|---------------------------------|---|
| Max. recommended PV power | 19 kW _P ¹⁾ |
| Max. input power | 16.5 kW ²⁾ |
| Nominal power | 15.6 kW |
| Voltage range | 200 ... 1000 V |
| MPP operating voltage range | 200 ... 1000 V |
| Startup voltage | 250 V |
| Voltage range for maximum power | 355 ... 820 V symmetrical load (50/50 %) |
| Max. current | 44 A (22 A per MPP tracker) |
| Max. number of MPP trackers | Parallel inputs: 1 MPP tracker Separate inputs: 2 MPP trackers |
| Input load | ≤ 11.1 kW per MPP tracker; symmetrical and asymmetrical (33/67 %) |

| OUTPUT (AC) | RPI M15A |
|---------------------------------|--|
| Max. apparent power | 15.75 kVA ^{3) 4)} |
| Nominal apparent power | 15 kVA ⁴⁾ |
| Voltage range | 230 ± 20% / 400 V ± 20 % ⁵⁾ 3 phase + PE or 3 phase + N + PE |
| Nominal current | 22 A |
| Nominal frequency | 50 / 60 Hz |
| Frequency range | 50 / 60 Hz ± 5 Hz ⁵⁾ |
| Power factor adjustable | 0.8 cap ... 0.8 ind |
| Total harmonic distortion (THD) | < 3 % @ nominal apparent power |

GENERAL SPECIFICATION

| | |
|-----------------------------|---|
| Model name | RPI-M15A |
| Part number Delta | RPI153FA0E0000 |
| Max. efficiency | 98.3 % |
| Efficiency EU | 97.9 % |
| Operating temperature | -25 ... +60 °C |
| Full power without derating | -25 ... +52 °C ⁶⁾ |
| Storage temperature | -25 ... +60 °C |
| Humidity | 0 ... 100 % non-condensing |
| Max. operating altitude | 2000 m (above sea level) |
| Standard guarantee | 5 years (guarantee extension is possible) |

MECHANICAL DESIGN

| | |
|--------------------------|---|
| Size (L x W x D) | 625 x 612 x 278 mm |
| Weight | 43 kg |
| Cooling | Fans |
| AC connector | Amphenol C16-3 (included) |
| DC connector | 4 pairs of Multi-Contact MC4 (included) |
| Communication interfaces | 2 x RS485, 1 x Dry Contact, 1 x EPO |
| DC disconnecter | Integrated |
| Display | 2 LEDs, 5 inch monochrome graphical LCD |

| SAFETY / STANDARDS | RPI M15A |
|---|---|
| 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/A1; UTE C15-712-1 VDE 16 1-1 A1 VFR 2013/VFR 2014; French Islands (50 Hz/60 Hz); VDE-AR-N 4105; Synergrid C10/C11 06/2012; G59/3 2013; EN 50438 2013 |
| EMC | EN61000-6-2; EN61000-6-3; EN61000-3-11; EN61000-3-12 |
| Safety | IEC62109-1 / -2; CE compliance |

- 1) When operated with balanced DC inputs (50/50 %)
- 2) Max. 11.1 kW per DC input with asymmetrical load
- 3) The maximum AC apparent power indicates the power an inverter is able to deliver. This maximum apparent power may not necessarily be reached.
- 4) Cos Phi = 1 (VA = W)
- 5) AC voltage and frequency range will be programmed according to the individual country requirements.
- 6) Full nominal power available up to 52 °C with nominal voltages (AC and DC) and Cos Phi = 1.



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