



The Power Behind Competitiveness

Delta RPI-M15A

Grid-Tied Solar Inverter
RPI-M15A



Product Features

- Transformerless Inverter
- Dual MPP Trackers
- Peak Efficiency up to 98.3%
- Wide Voltage Range (200~1000Vdc)
- Reactive Power Control
- Ergonomic Grip Design
- Ultra Compact Size
- Built-in Energy-logger
- IP65 Protection Level
- Built-in DC Switch

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 **DELTA**
Smarter. Greener. Together.

Delta RPI-M15A

With Delta's cutting-edge technology, the commercial series Solar Inverters are with efficiencies as high as 98.3%. These inverters are compact in size with durable quality to ensure smooth PV system operation. IP65 enclosure provides higher level of protection and enhances its durability in a harsh outdoor environment.



Delta RPI-Commercial Series

Technical data RPI-M15A

| INPUT (DC) | RPI-M15A |
|-------------------------------|---------------|
| Recommended Max. DC Power | 19 kWp |
| Max. Input Voltage | 1000 V |
| DC Voltage Range | 200 - 1000 V |
| Start-up Voltage | >250 V |
| Start-up Power | 40W |
| MPPT Voltage Range | 200 - 1000 V |
| MPP Voltage Range, Full Power | 355 - 820 V |
| Nominal DC voltage | 635 V |
| Max. input current per MPP | 22 A |
| Total input current | 44 A |
| Maximum Short Circuit Current | 24A / 24A |
| No. of independent MPP | 2 |
| Unbalanced input | 33 / 67 |
| Input connection type | 4 pair MC4 |
| DC Disconnection Switch | Yes (Inbuilt) |

| OUTPUT (AC) | |
|-----------------------------------|-------------------------------|
| Rated Output Power | 15 kVA |
| Maximum Output Power | 15.75 kVA |
| Rated Output Current | 22 A |
| Max. Output Current | 24 A |
| Inrush Current | 150A / 100µs |
| Nominal AC Voltage | 3 Ph, 400 V |
| AC Voltage Range | 400 V \pm 20 % (320~480) |
| Nominal Frequency | 50 Hz |
| Frequency Range | 45 Hz - 55 Hz |
| Power Factor at Rated Power | Unity |
| Reactive Power (Adjustable) | 0.8 Lagging ~ 0.8 Leading |
| Harmonics | <3% at Rated Power |
| DC Injection | <0.5% at Rated Output Current |
| No. of Conductors (user settable) | 4/5 Wire (L1, L2, L3, N, PE) |

| EFFICIENCY | |
|--------------------|--------|
| Maximum Efficiency | 98.30% |
| Euro Efficiency | 97.90% |

| PROTECTION | |
|---|-----|
| Input-side Disconnection Device | Yes |
| Ground Fault Monitoring / Grid Monitoring | Yes |
| DC Reverse Polarity Protection | Yes |
| DC Over Voltage / Current Limitation Protection | Yes |
| AC Short Circuit Protection | Yes |
| AC Over Voltage / Current Limitation Protection | Yes |
| DC / AC Side Surge Protection - Inbuilt | MOV |

| GENERAL DATA | RPI-M15A |
|-----------------------------|---|
| Dimension (H/W/D) | 625 x 612 x 278 mm |
| Weight (kg) | 43 |
| Operating Temperature Range | - 25 °C to + 60 °C (Full Power - 20 °C to + 40 °C) |
| Relative Humidity | 0~100%, Non-condensing |
| Operating Elevation | < 2000 m |
| Degree of Protection | IP65 |
| Noise Level (Typical) | <55 dB (1m Front Panel) |
| Self Consumption at Night | <2 Watts |

| SAFETY/STANDARDS | |
|---|--|
| Anti-islanding Protection / Grid Regulation | DIN VDE V 0124-100; DIN VDE V 0126-1-1; VDE 4105; IEC 61727; IEC 62116 |
| EMC | EN 61000; IEC 61000 |
| Safety | IEC/EN 62109-2:2011 |
| Efficiency | IEC 61683 :1999; EN 50530 (As Per MNRE and SECI Requirement) |
| Environmental Testing | IEC 60068-2 (1,2,14,30) & (6,21,27,75,78) |
| Ingress Protection | EN 60529:1991+A1:2000; IEC 60529:1989/A1:1999 |

| COMMUNICATION | |
|-----------------------------|---------------------------------------|
| Communication Port | MODBUS RTU over RS 485 Physical Layer |
| Display | 5" Graphical LCD |
| Built-in Energy Data Logger | Yes |
| Emergency Power Off (EPO) | Yes, External Switch to be Connected |
| Dry Contact Relay (2 Nos.) | Yes |

| WARRANTY | |
|-------------------------|---|
| Standard Warranty Years | 5 |

Notes

1. If PV Module is grounded (Negative / Positive Grounding), separate Isolation Transformer is required at the Grid interface of Inverter
2. Parallel Operation of Inverters is possible for large Power Plants
3. Installing SPDs for PV and AC circuit is recommended
4. Refer to Delta's Standard Warranty Terms and Conditions for more details.

For Any Sales / Application Engineering Support, Please Contact :

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