



The Power Behind Competitiveness

Delta RPI-M10A

Grid-Tied Solar Inverter
RPI-M10A



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 AC/DC Switch

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 **DELTA**
Smarter. Greener. Together.

Delta RPI-M10A

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-M10A

INPUT (DC)	RPI-M10A
Recommended Max. DC Power	12.5 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	415 - 800 V
Nominal DC Voltage	600 V
Max. Input Current per MPPT	15 A / 10 A
Total Input Current	25 A
Maximum Short Circuit Current	19.5A / 13A
No. of Independent MPP Trackers	2
Unbalanced Input (%)	60 / 40
Input Connection Type	3 pair MC4
DC Disconnection Switch	Yes (Inbuilt)

OUTPUT (AC)	
Rated Output Power	10 kVA
Maximum Output Power	10.5 kVA
Rated Output Current	14.5 A
Max. Output Current	16 A
Inrush Current	31A / 100µs
Nominal AC Voltage	3 Ph, 400 V
AC Voltage Range	400 V ± 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	98.00%

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	Yes, MOV

GENERAL DATA	RPI-M10A
Dimension (H/W/D)	445 x 510 x 177 mm
Weight (kg)	25
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)	<50 dB (1m Front Panel)
Self Consumption at Night	<2 Watts

SAFETY/STANDARDS	
Anti-islanding Protection / Grid Regulation	VDE-AR-N 4105:2011 ; DIN VDE V 0124-100:2012; DIN VDE V 0126-1-1; IEC 61727; IEC 62116
EMC	EN 61000; IEC 61000
Safety	IEC 62109-2
Efficiency	IEC 61683:1999
Environmental Testing	IEC 60068-2 (1,2,14,30)
Ingress Protection	IEC 60529

COMMUNICATION	
Communication Interface	MODBUS RTU over RS 485 Physical Layer
Graphical Display	20 x 4 LCD
Built-in Energy Data Logger	Yes
Emergency Power Off (EPO)	Yes, External Switch to be Connected

WARRANTY	
Standard Warranty	5 Years

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 :

DELTA POWER SOLUTIONS (INDIA) PVT. LTD.,

"A" Block, Third Floor, Ozone Manay Tech Park, Hongasandra Village, Hosur Road, Bangalore – 560 068, INDIA

TEL +91 80 6716 4646

Fax +91 80 6716 4784

www.deltaelectronicsindia.com | email: solarsales@deltaww.com