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Samaarambh  
Solar Power



The Power Behind Competitiveness

## Delta RPI-M6A

Grid-Tied Solar Inverter

RPI-M6A



### 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

[www.deltaelectronicsindia.com](http://www.deltaelectronicsindia.com)

 **DELTA**  
Smarter. Greener. Together.

# Delta RPI-M6A

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.



Note: Product image shown above is indicative only. The inverter has only two pairs of MC4 connector input.

# Delta RPI-Commercial Series

## Technical data RPI-M6A

INPUT (DC)	RPI-M6A
Recommended Max. DC Power	7.5 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	315 - 800 V
Nominal DC Voltage	600 V
Max. Input Current per MPPT	10 A
Total Input Current	20 A
Maximum Short Circuit Current	13A / 13A
No. of Independent MPP Trackers	2
Unbalanced Input (%)	33 / 67
Input Connection Type	2 pair MC4
DC Disconnection Switch	Yes (Inbuilt)

OUTPUT (AC)	
Rated Output Power	6 kVA
Maximum Output Power	6.3 kVA
Rated Output Current	8.7 A
Max. Output Current	9.7 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	97.60%

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-M6A
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)	<50dB (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.

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