



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

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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
Max. DC Power	7.5 kWp
Max. Input Voltage	1000 V
DC Voltage Range	200 - 1000 V
MPPT Voltage Range	315 - 800 V
Start-up Voltage	> 250 V
Nominal DC Voltage	600 V
Max. Input Current per MPPT	10 A
Total Input Current	20 A
No. of Independent MPP Trackers	2
Unbalanced Input (%)	33/67 or 67/33
Input Connection Type	2 Pair MC4
DC Disconnection Switch	Yes (Inbuilt)

OUTPUT (AC)	
Rated Output Power	6.3 kVA
Max. Output Current	9.7 A
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
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)	<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
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 Port	MODBUS RTU over RS 485 Physical Layer
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

Note

- 1 For Thin-film Module Operation (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 SPD's For PV and AC Circuit is Recommended.
- 4 Please Refer to our Standard Warranty Terms and Conditions For Details.

For Any Sales / Application Engineering Support, Please Contact :

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