

The Power Behind Competitiveness

Delta RPI-M20A

Grid-Tied Solar Inverter RPI-M20A



Product Features

- Transformerless Inverter
- Dual MPP Trackers
- Peak Efficiency up to 98.4%
- 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



Delta RPI-M20A

With Delta's cutting-edge technology, the commercial series Solar Inverters are with efficiencies as high as 98.4%. 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-M20A

INPUT (DC)	RPI-M20A
Recommended Max. DC Power	25 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	470 - 820 V
Nominal DC Voltage	635 V
Max. Input Current per MPPT	22 A
Total Input Current	44 A
Maximum Short Circuit Current	24A / 24A
No. of Independent MPP Trackers	2
Unbalanced Input (%)	33 / 67
Input Connection Type	4 pair MC4
DC Disconnection Switch	Yes (Inbuilt)

OUTPUT (AC)

20 kVA
21 kVA
29 A
32 A
150A / 100µs
3 Ph, 400 V
400 V ± 20 % (320~480)
50 Hz
45 Hz - 55 Hz
Unity
0.8 Lagging ~ 0.8 Leading
<3% at Rated Power
<0.5% at Rated Output Current
4/5 Wire (L1, L2, L3, N, PE)

EFFICIENCY

Maximum Efficiency	98.40%
Euro Efficiency	98.10%

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-M20A
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
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 Interface	MODBUS RTU over RS 485 Physical Layer
Graphical Display	5" Graphical 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

 $www.deltaelectronicsindia.com\ I\ email: solarsales@deltaww.com$

