



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

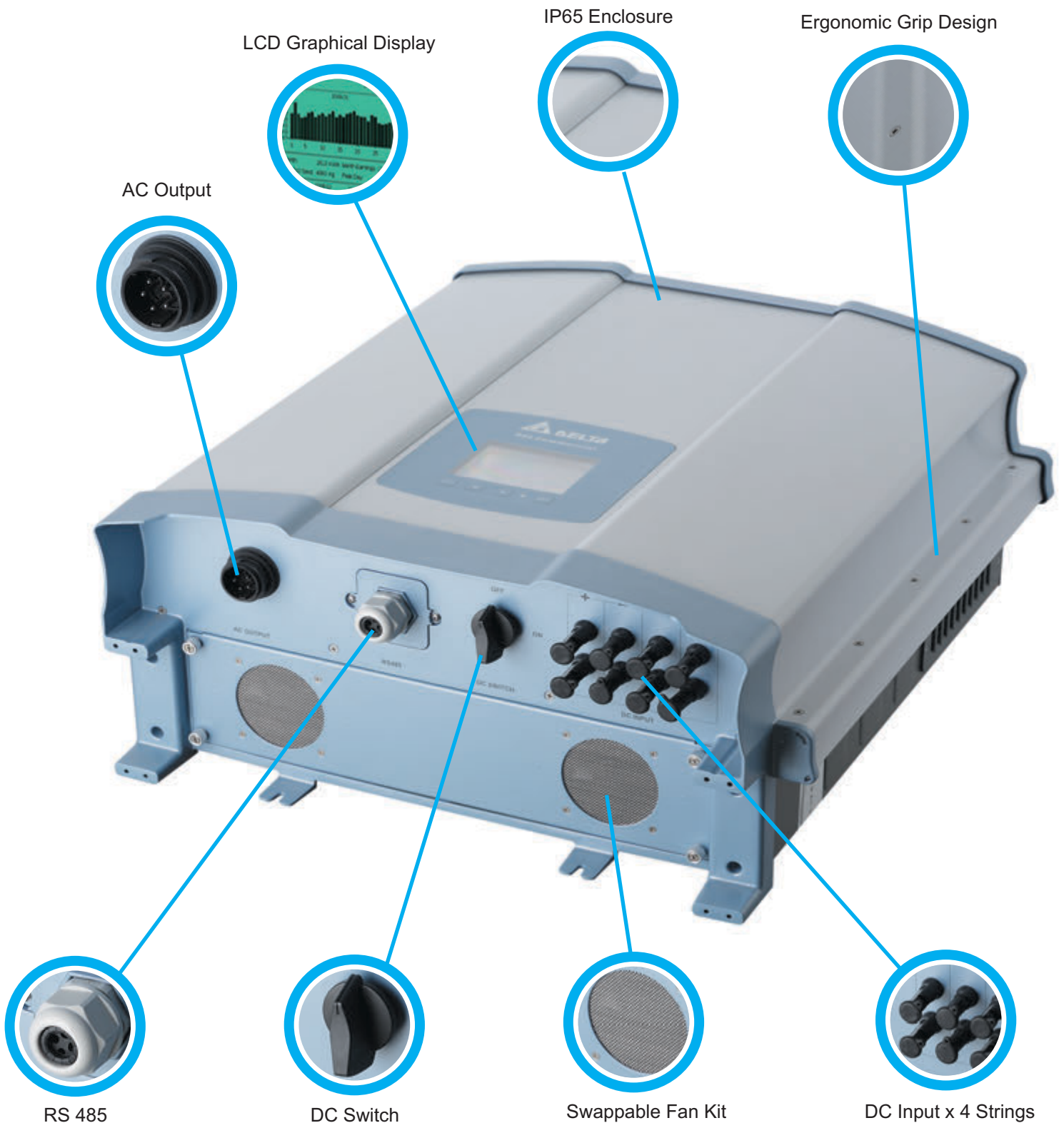
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DELTA
Smarter. Greener. Together.

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
Max. DC Power	25 kWp
Max. Input Voltage	1000 V
DC Voltage Range	200 - 1000 V
MPPT Voltage Range	470 - 820 V
Start-up Voltage	> 250 V
Nominal DC Voltage	635 V
Max. Input Current per MPPT	22 A
Total Input Current	44 A
No. of Independent MPP Trackers	2
Unbalanced Input (%)	33 / 67
Input Connection Type	4 pair MC4
DC Disconnection Switch	Yes (Inbuilt)

OUTPUT (AC)	
Rated Output Power	20 kVA
Max. Output Current	32 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	98.40%
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; IEC 61727; IEC 62116; IEEE 1547
EMC	EN 61000; IEC 61000
Safety	IEC/EN 62109
Efficiency	IEC 61683:1999
Environmental Testing	IEC 60068-2-1; IEC 60068-2-2; IEC 60068-2-14; IEC 60068-2-30; IEC 60068-2-6; IEC 60068-2-21; IEC 60068-2-27; IEC 60068-2-75; IEC 60068-2-78 (As Per MNRE and SECI Requirement)
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" LCD
Built-in Energy Data Logger	Yes
Emergency Power Off (EPO)	Yes, External Switch to be Connected

WARRANTY

Standard Warranty	5 Years
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Note

- 1 For Thin-film Module Operation (Negative / Positive Grounding), Separate Isolation Transformer is Required at the Grid Interface of Inverter.
- 2 Mating MC4 Connectors Shall Not Be Part of Standard Supply.
- 3 Parallel Operation of Inverters is Possible For Large Power Plants.
- 4 Installing SPD's For PV and AC Circuit is Recommended.
- 5 Please Refer to our Standard Warranty Terms and Conditions For Details.

For Any Sales / Application Engineering Support, Please Contact :

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