



The Power Behind Competitiveness

# Delta RPI-M30A

Grid-Tied Solar Inverter

RPI-M30A



## Product Features

- Transformerless Inverter
- Dual MPP Trackers
- Peak Efficiency up to 98.5%
- 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

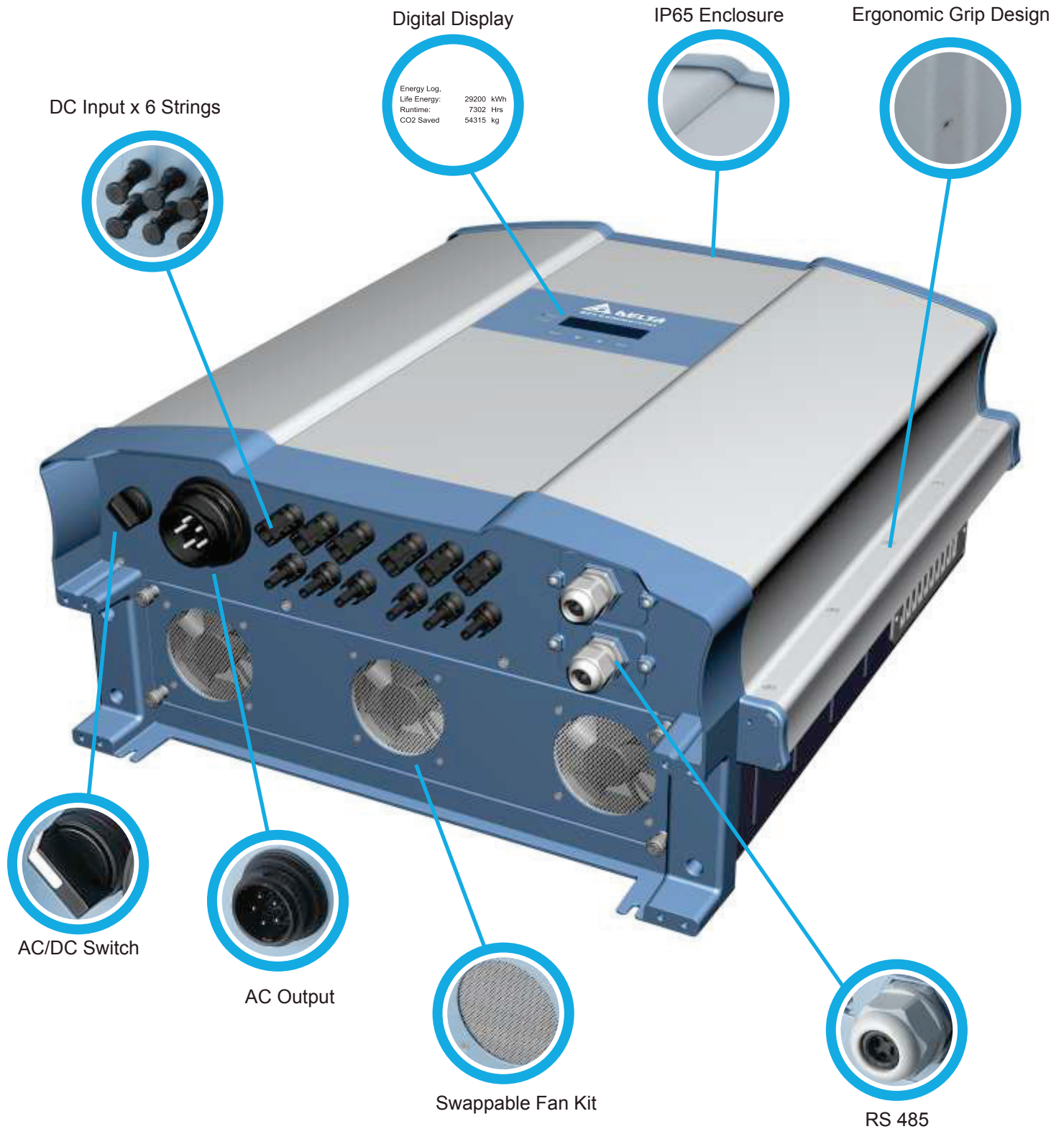
[www.deltaelectronicsindia.com](http://www.deltaelectronicsindia.com)



**DELTA**  
Smarter. Greener. Together.

# Delta RPI-M30A

With Delta's cutting-edge technology, the commercial series Solar Inverters are with efficiencies as high as 98.5%. 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

## RPI-M30A

<b>Model</b>	<b>RPI-M30A</b>
<b>Topology</b>	Transformerless

### INPUT (DC)

Max. DC Power	37.5 kWp
Max. Input Voltage	1000 V
DC Voltage Range	200 - 1000 V
MPP Voltage Range	520 - 800 V
Start-up Voltage	> 250 V
Nominal DC Voltage	600 V
Max. input current per MPP	30 A
Total input current	60 A
No. of independent MPP	2
Unbalanced input	33 / 67
Input connection type	6 pair MC4
DC disconnection switch	Yes (inbuilt)

### OUTPUT (AC)

Rated Output Power	30 kVA
Max. Output Current	50 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	98.50%
Euro Efficiency	98.20%

### PROTECTION

AC/DC Disconnection Switch	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

Dimension (H/W/D)	625 X 612 x 278 mm
Weight (kg)	48.5
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)	<65 dB (1m Front Panel)
Self Consumption at Night	< 3 Watts

### Safety/Standards

Anti-islanding Protection/ Grid Regulation	VDE-AR-N 4105; VDE0126-1-1; IEC 62116; IEC 61727
EMC	EN 61000; IEC 61000
Safety	IEC/EN 62109-2:2011
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	IEC 60529
Efficiency	IEC 61683:1999

### COMMUNICATION

Communication Port	MODBUS RTU over RS 485 Physical Layer
Display	20 x 4 Character Type
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 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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