



The Power Behind Competitiveness

# Delta RPI-H3

Grid-Tied Solar Inverter  
RPI-H3



## Product Features

- Transformerless Inverter
- Peak Efficiency up to 97.0%
- Reactive Power Control
- Ergonomic Grip Design
- Ultra Compact Size
- Built-in Energy-logger
- IP65 Protection Level
- Built-in DC Switch

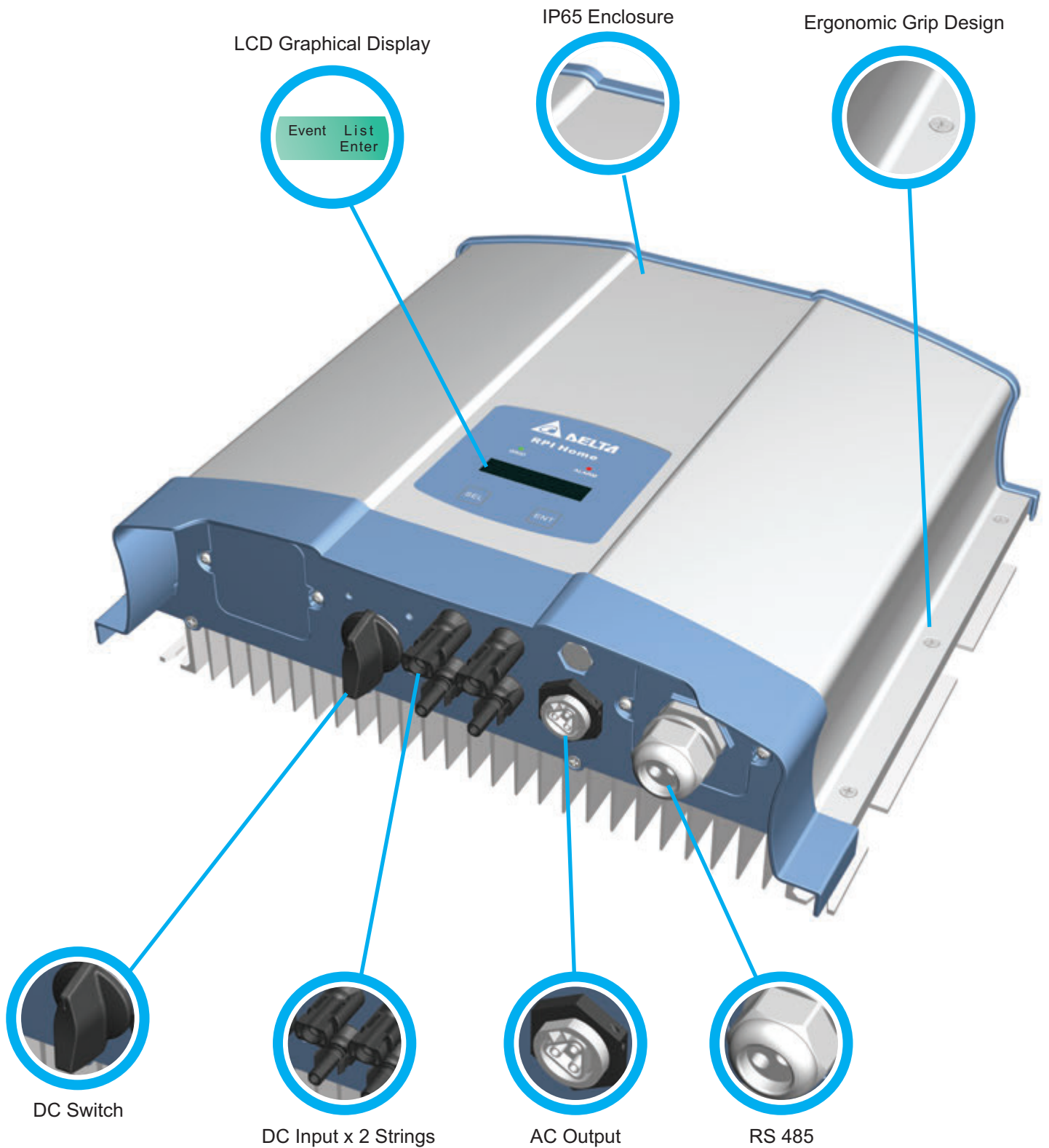
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**DELTA**  
Smarter. Greener. Together.

# Delta RPI-H3

With Delta's cutting-edge technology, the home series Solar Inverters are with efficiencies as high as 97.0%. 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-Home Series

## Technical data RPI-H3

INPUT (DC)	RPI-H3
Max. DC Power	3.75 kWp
Max. Input Voltage	550 V
DC Voltage Range	125 - 550 V
Start-up Voltage	> 150 V
MPPT Voltage Range	125 - 550 V
MPP voltage range, Full Power	320 - 500 V
Nominal DC Voltage	355 V
Total Input Current	10 A
No. of Independent MPP Trackers	1
Input Connection Type	2 pair MC4
DC Disconnection Switch	Yes (Inbuilt)

OUTPUT (AC)	
Rated Output Power	3 kVA
Maximum output power	3 kVA
Rated output current	13 A
Max. Output Current	14.3 A
Nominal AC Voltage	1 Ph, 230 V
AC Voltage Range	230 V $\pm$ 20 % (184-276)
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	3 Wire (L,N,PE)

EFFICIENCY	
Maximum Efficiency	97.00%
Euro Efficiency	96.20%

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-H3
Dimension (H/W/D)	367 x 420 x 157 mm
Weight (kg)	15
Operating Temperature Range	- 20 °C to + 60 °C (Full Power - 20 °C to + 40 °C)
Relative Humidity	0-95%, Non-condensing
Operating Elevation	< 2000 m
Degree of Protection	IP65
Noise Level (Typical)	<35 dB (1m Front Panel)
Self Consumption at Night	< 1 Watt

SAFETY/STANDARDS	
Anti-islanding Protection / Grid Regulation	DIN VDE V 0124-100; VDE 4105
EMC	EN 61000; IEC 61000
Safety	IEC/EN 62109
Efficiency	IEC 61683
Environmental Testing	IEC 60068-2 (1,2,14,30) (As Per MNRE Requirement)
Ingress Protection	IEC 60529

COMMUNICATION	
Communication Interface	MODBUS RTU over RS 485 Physical Layer
Graphical Display	LCD 16 Characters x 2
Built-in Energy Data Logger	Yes

WARRANTY	
Standard Warranty	5 Years

### Note

- 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 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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