



The Power Behind Competitiveness

Delta RPI-H5

Grid-Tied Solar Inverter

RPI-H5



Product Features

- Transformerless Inverter
- Peak Efficiency up to 97.5%
- 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

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DELTA
Smarter. Greener. Together.

Delta RPI-H5

With Delta's cutting-edge technology, the home series Solar Inverters are with efficiencies as high as 97.5%. 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-Home Series

Technical data RPI-H5

INPUT (DC)	RPI-H5
Recommended Max. DC Power	5425W
Max. Input Voltage	1000 V
DC Voltage Range	200 - 1000 V
Start-up Voltage	>250 V
Start-up Power	15W
MPPT Voltage Range	200 - 1000 V
MPP Voltage Range, Full Power	310 - 850 V
Nominal DC Voltage	650 V
Total Input Current	17.5 A
Maximum Short Circuit Current	24.5A
No. of Independent MPP Trackers	1
Input Connection Type	2 pair MC4
DC Disconnection Switch	Yes (Inbuilt)

OUTPUT (AC)	
Rated Output Power	5 kVA
Maximum Output Power	5 kVA
Rated Output Current	21.7 A
Max. Output Current	24.5 A
Inrush Current	30A / 1ms
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
DC Injection	<0.5% at Rated Output Current
No. of Conductors	3 Wire (L, N, PE)

EFFICIENCY	
Maximum Efficiency	97.50%
Euro Efficiency	97.00%

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-H5
Dimension (H/W/D)	482 x 470 x 167 mm
Weight (kg)	21.5
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)	< 40dB (1m Front Panel)
Self Consumption at Night	< 1Watt

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

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 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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