



The Power Behind Competitiveness

Delta RPI Central Series

Grid-Tied Solar Inverter
RPI C500



Product Features

- High Efficiency up to 98.5%
- BDEW / Golden Sun Certified
- Active Power Control
- Reactive Power Control (0.8 Lagging ~ 0.8 Leading)
- IP65 Protection for Outdoor Environment
- 5" Graphic LCD Display
- 6 Optional Languages Display
- Built-in Energy-Log

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DELTA
Smarter. Greener. Together.

Delta RPI Central PV Inverter

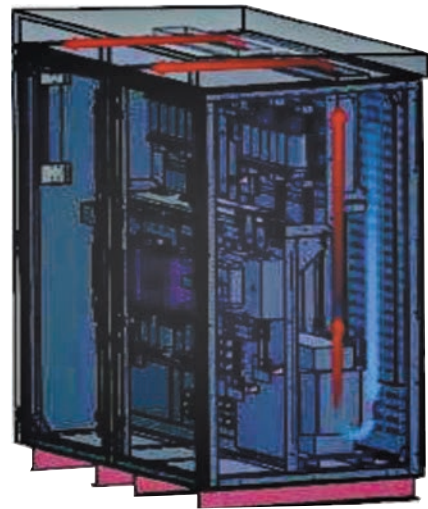
High Quality Enclosure for Outdoor Environment

With an IP65 rated enclosure the inverter is rated for both indoor and outdoor operation. This can bring down the cost of having to build an additional control room to house the inverter.



High Reliability & Durability

The RPI C500 is designed with louvers on the back to bring in cool fresh air to reduce system temperature and is let out from the top. The enclosure is designed to isolate all electronic components to the front with an IP65 protection level thereby preventing dust from entering inside. This ensures longevity of all electronic components and increases reliability of inverters.



Compact Size

The RPI C500 has a compact design and only occupies 2/3rd of the space compared to the other inverters in the market. This gives the installer more flexibility in terms of locating the inverter and also save on construction costs.



Delta RPI Central Series

RPI C500

Model	RPI C500
Topology	Transformerless ¹

INPUT (DC)

Max. DC Power	600 kWp
Max. Input Voltage	1000 V
DC Voltage Range	420 - 1000 V
MPP Voltage Range	450 - 820 V
Start-up Voltage	> 500 V
Nominal DC Voltage	650 V
Rated Input Current	1200 A
No. of Independent MPPT Trackers	1
Input Connection Type	Bus Bar
DC Disconnection Switch	Yes (Inbuilt)
No. of DC Input (With Fuse)	8 Nos. (Maximum)

OUTPUT (AC)

Rated Output Power	500 kVA
Max. Output Power	520 kVA
Max. Output Current	1080 A
Nominal AC Voltage	3 Ph, 270 V
AC Voltage Range	270 V \pm 20 % (216-324)
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 (L1,L2,L3)
AC Disconnection Type	MCCB

EFFICIENCY

Maximum Efficiency	98.50%
Euro Efficiency	98.30%

PROTECTION

Input-side Disconnection Device	Yes
Ground Fault Monitoring / Grid Monitoring	Yes
DC Input Fuse (Positive & Negative)	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, SPD

GENERAL DATA

Dimension (H/W/D)	1950 X 1600 X 800 mm
Weight (kg)	1350
Operating Temperature Range	- 25 °C to 60 °C (Full Power - 25 °C to 45 °C)
Relative Humidity	5~95%, Non-Condensing
Operating Elevation	< 3000 m
Degree of Protection	IP65
Noise Level (Typical)	<80 dB (1m Front Panel)
Self Consumption at Night	<50 Watts

CERTIFICATES

Anti-islanding protection /Grid Regulation	IEC61727; Golden Sun; BDEW
EMC	EN 61000-6-2; EN 61000-6-4
Safety	IEC 62109-1; IEC 62109-2
Environmental Testing	IEC 60068-2-1; IEC 60068-2-2; IEC 60068-2-14; IEC 60068-2-30;
Ingress Protection	CGC - GB4208-2008
Efficiency	Golden Sun - CGC134690120R0M

COMMUNICATION

Communication Port	MODBUS RTU over RS 485 Physical Layer
Display	5" LCD
Built-in Energy Data Logger	Yes
Emergency Power Off (EPO)	Yes, Push Button
Dry Contact	Yes (2 Nos.)

WARRANTY

Standard Warranty	5 Years
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Note

- 1 Pole Grounding Option Possible via Fuse. Negative or Positive Pole Grounding Requirement needs to be Confirmed During Sale Process.
- 2 Parallel Operation of Inverters is Possible For Large Power Plants, Each Inverter to be Connected to a Separate Winding on LV side in Transformer.
- 3 Please Refer to our Standard Warranty Terms and Conditions For Details.

For Any Sales / Application Engineering Support, Please Contact :

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