



The Power Behind Competitiveness

Delta RPI Commercial Series

Grid-Tied Solar Inverter

RPI-M12 / RPI-M15A / RPI-M20A / RPI-M30

Product Features

- Transformerless Inverter
- Dual MPP Trackers
- Peak Efficiency up to 98.3%
- 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

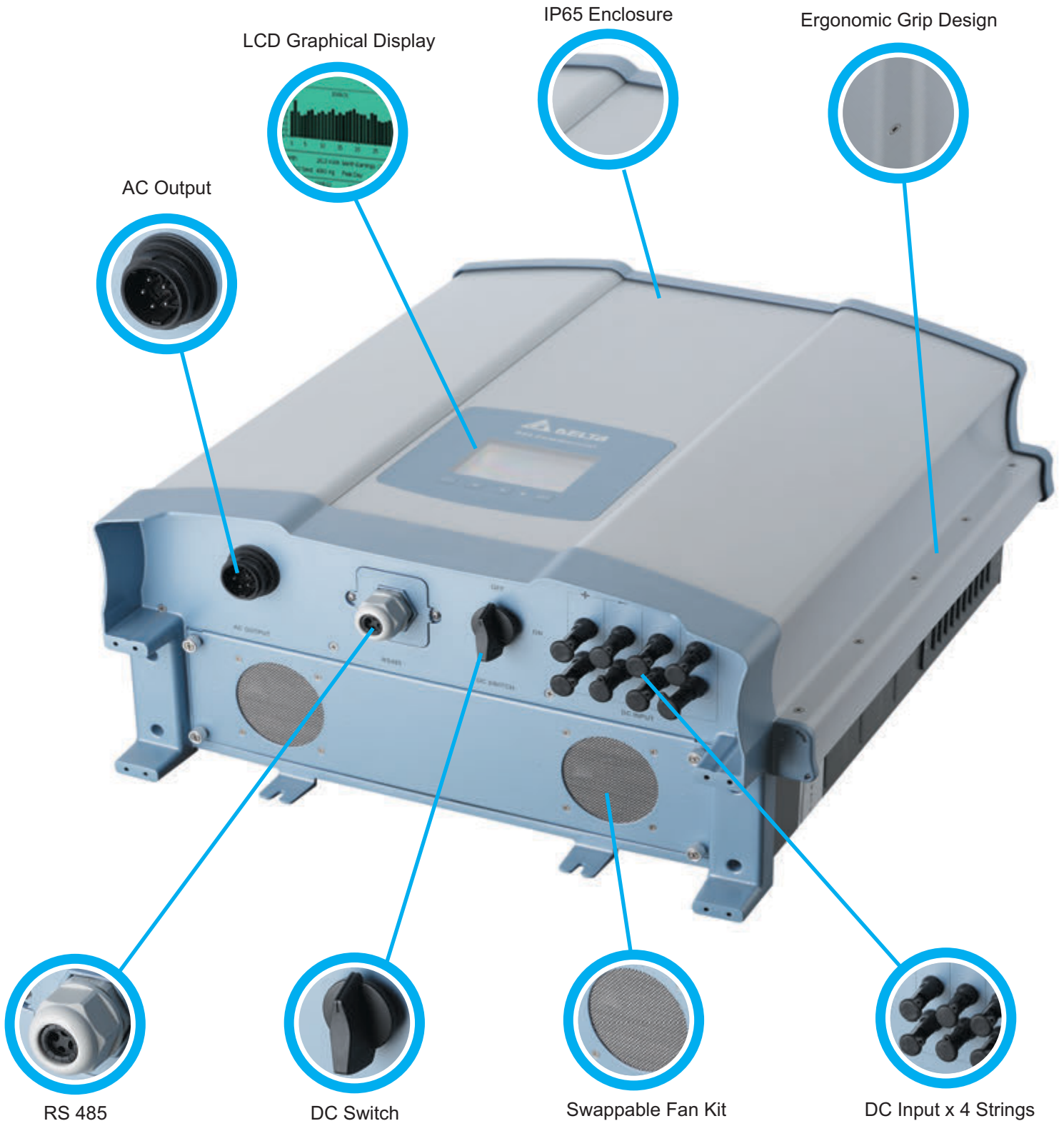
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DELTA
Smarter. Greener. Together.

Delta RPI Commercial Series

With Delta's cutting-edge technology, the commercial series Solar Inverters are with efficiencies as high as 98.3%. 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.



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RPI-M12 / RPI-M15A / RPI-M20A / RPI-M30

Model	RPI-M12	RPI-M15A	RPI-M20A	RPI-M30
INPUT (DC)				
Max. DC Power	15 kWp	19.0 kWp	25 kWp	38 kWp
Max. Input Voltage	1000 V	1000 V	1000 V	1000 V
DC Voltage Range	200 - 1000 V	200 - 1000 V	200 - 1000 V	200 - 1000 V
MPPT Voltage Range	416 - 850 V	355 - 820 V	470 - 820 V	480 - 800 V
Start-up Voltage	> 250 V	> 250 V	> 250 V	> 250 V
Nominal DC Voltage	635 V	635 V	635 V	650 V
Max. Input Current per MPPT	20 A	22 A	22 A	34 A
Total Input Current	30 A	44 A	44 A	68 A
No. of Independent MPP Trackers	2	2	2	2
Unbalanced Input (%)	33 / 67	33 / 67	33 / 67	33 / 67
Input Connection Type	4 pair MC4	4 pair MC4	4 pair MC4	6 pair MC4
DC Disconnection Switch	Yes (Inbuilt)	Yes (Inbuilt)	Yes (Inbuilt)	Yes (Inbuilt)
OUTPUT (AC)				
Rated Output Power	12 kVA	15 kVA	20 kVA	30 kVA
Max. Output Current	19.2 A	24 A	32 A	46 A
Nominal AC Voltage	3 Ph, 400 V	3 Ph, 400 V	3 Ph, 400 V	3 Ph, 400 V
AC Voltage Range	400 V \pm 20 % (320~480)	400 V \pm 20 % (320~480)	400 V \pm 20 % (320~480)	400 V \pm 20 % (320~480)
Nominal Frequency	50 Hz	50 Hz	50 Hz	50 Hz
Frequency Range	45 Hz - 55 Hz	45 Hz - 55 Hz	45 Hz - 55 Hz	45 Hz - 55 Hz
Power Factor at Rated Power	Unity	Unity	Unity	Unity
Reactive Power (Adjustable)	0.8 Lagging ~ 0.8 Leading	0.8 Lagging ~ 0.8 Leading	0.8 Lagging ~ 0.8 Leading	0.8 Lagging ~ 0.8 Leading
Harmonics	<3% at Rated Power	<3% at Rated Power	<3% at Rated Power	<3% at Rated Power
No. of Conductors (user settable)	4/5 Wire (L1,L2,L3,N,PE)	4/5 Wire (L1,L2,L3,N,PE)	4/5 Wire (L1,L2,L3,N,PE)	4/5 Wire (L1,L2,L3,N,PE)
EFFICIENCY				
Maximum Efficiency	98.30%	98.30%	98.40%	98.20%
Euro Efficiency	97.70%	97.90%	98.10%	97.50%
PROTECTION				
Input-side Disconnection Device	Yes	Yes	Yes	Yes
Ground Fault Monitoring / Grid Monitoring	Yes	Yes	Yes	Yes
DC Reverse Polarity Protection	Yes	Yes	Yes	Yes
DC Over Voltage / Current Limitation Protection	Yes	Yes	Yes	Yes
AC Short Circuit Protection	Yes	Yes	Yes	Yes
AC Over Voltage / Current Limitation Protection	Yes	Yes	Yes	Yes
DC / AC Side Surge Protection - Inbuilt	Yes, MOV	Yes, MOV	Yes, MOV	Yes, MOV
GENERAL DATA				
Dimension (H/W/D)	625 x 612 x 278 mm	625 x 612 x 278 mm	625 x 612 x 278 mm	960 x 612 x 278 mm
Weight (kg)	40	43	43	72
Operating Temperature Range	-20 °C to +60 °C (Full Power -20 °C to +40 °C)	-25 °C to +60 °C (Full Power -20 °C to +40 °C)	-25 °C to +60 °C (Full Power -20 °C to +40 °C)	-20 °C to +60 °C (Full Power -20 °C to +40 °C)
Relative Humidity	0~100%, Non-condensing	0~100%, Non-condensing	0~100%, Non-condensing	0~100%, Non-condensing
Operating Elevation	< 2000 m	< 2000 m	< 2000 m	< 2000 m
Degree of Protection	IP65	IP65	IP65	IP65
Noise Level (Typical)	<55 dB (1m Front Panel)	<55 dB (1m Front Panel)	<55 dB (1m Front Panel)	<61 dB (1m Front Panel)
Self Consumption at Night	< 2 Watts	< 2 Watts	< 2 Watts	< 2 Watts
SAFETY/STANDARDS				
Anti-islanding Protection / Grid Regulation	VDE-AR-N 4105	DIN VDE V 0124-100; DIN VDE V 0126-1-1; IEC 61727; IEC 62116; IEEE 1547	DIN VDE V 0124-100; DIN VDE V 0126-1-1; IEC 61727; IEC 62116; IEEE 1547	VDE-AR-N 4105 ;IEC 61727; IEC 62116; IEEE 1547
EMC	IEC 61000; IEC 61000	EN 61000; IEC 61000	EN 61000; IEC 61000	EN 61000; IEC 61000
Safety	IEC 62109	IEC/EN 62109	IEC/EN 62109	IEC/EN 62109
Efficiency	IEC 61683:1999	IEC 61683:1999	IEC 61683:1999	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)	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)	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	EN 60529:1991+A1:2000; IEC 60529:1989/A1:1999	IEC 60529 Edition 2.1 2001-02
COMMUNICATION				
Communication Interface	MODBUS RTU over RS 485 Physical Layer	MODBUS RTU over RS 485 Physical Layer	MODBUS RTU over RS 485 Physical Layer	MODBUS RTU over RS 485 Physical Layer
Graphical Display	5" LCD	5" LCD	5" LCD	5" LCD
Built-in Energy Data Logger	Yes	Yes	Yes	Yes
Emergency Power Off (EPO)	Yes, External Switch to be Connected	Yes, External Switch to be Connected	Yes, External Switch to be Connected	Yes, External Switch to be Connected
WARRANTY				
Standard Warranty	5 Years	5 Years	5 Years	5 Years

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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