

M70A_260



The Power Behind Competitiveness

Delta Commercial Series

Product Features

- 6 MPPTs with Max. Efficiency upto 98.7%
- Wireless Communication (SUB_1G / Wi-Fi)
- Smart Online IV curve scan and Diagnosis
- Fuse free design with Smart string current monitoring
- Night time Reactive Power Generation
- Anti-PID Function
- Compatible with both Al & Cu AC Cables
- Type II SPDs on both DC and AC Sides



Delta M70A_260

Wireless Communication / APP

MyDeltaSolar APP provides quick on-site commission and total plant monitoring solution.

Swappable Fan Kit

Smart cooling system enhances the total plant performance and minimizes the noise.

SUB_1G
(MyDeltaSolar APP)



Fast Installation

M70A_260 not only supports wall mount installations, but also ground mount installations which can save cost for additional rack and installation time.

Wall Mount



Ground Mount



Toggle Latch Design

Delta M70A_260 toggle latch design saves great amount of time for maintenance and minimize the risks of water intrusion due to insufficient torque for the screws.



Delta Commercial Series

Technical data - M70A_260

INPUT (DC)	M70A_260
Maximum Recommended PV power	112 kWp
Max. Input Voltage ¹	1100 V
DC Input Voltage Range	200 ~ 1000 V
Start-up Voltage	> 185 V
Start-up Power	< 50 W
MPPT Voltage Range	200 ~ 1000 V
MPP Voltage Range; Full Power ²	520 ~ 950 V
Nominal DC Voltage	600 V
Maximum Input Current; Total (6 MPPTs)	144 A (24 A / MPPT)
Maximum Short Circuit Current; Total (6 MPPTs)	300 A (50 A / MPPT)
No. of Independent MPP Trackers	6 Nos.
Number of DC inputs; Total (6 MPPTs)	18 Nos. (3 Pairs / MPPT)
String Current Monitoring	Yes
Anti-PID Function	Yes
Input Connection Type	Amphenol H4 Connector - 4/6 mm ²
DC Disconnect Switch	Yes; 2 x Integrated Disconnectors

OUTPUT (AC)	
Nominal Output Power ³	70 kVA
Maximum Output Power ³	77 kVA
Nominal Output Current	102 A
Max. Output Current	112 A
Nominal AC Voltage	3 Ph, 400 V
AC Voltage Range ⁴	400 V -20% ~ +30 % (320 ~ 520 V)
Nominal Frequency	50 Hz
Frequency Range ⁴	50 Hz ± 10 % (45 ~ 55 Hz)
Power Factor at Rated Power	Unity
Reactive Power (Adjustable)	0.8 Lagging ~ 0.8 Leading
Night time Reactive Power Generation	Yes; Upto 70 kVAR
Total Harmonic Distortion	< 3% at Rated Power
DC Injection	< 0.5% at Rated Current
No. of Conductors (user settable)	4/5 Wire (L1, L2, L3, N, PE)
Output Connection Type	Screw Clamp Terminal - Cu: 26 ~ 120 mm ² ; Al: 70 ~ 120 mm ² , Armoured / Unarmoured

EFFICIENCY	
Maximum Efficiency	98.70%
Euro Efficiency	98.40%

PROTECTION	
Input Disconnection Device	Yes
Ground fault / Grid monitoring	Yes
DC Reverse Polarity Protection	Yes
DC Over Voltage / Current Limitation Protection	Yes
String Fuse Protection ⁵	Fuse free design
DC / AC Short Circuit Protection	Yes
AC Over Voltage / Current Limitation Protection	Yes
DC / AC Surge Protection	Yes; Type II - SPD (Optional - Type I+II SPD)

GENERAL DATA	M70A_260
Dimension (H/W/D)	624 x 699 x 266 mm
Weight	65 kg
Operating Temperature Range	-25°C to +60°C (Power Derating > 50°C)
Relative Humidity	0 ~ 100%
Maximum Operating Altitude	< 4000 m
Enclosure Rating	IP 65
Noise Level	< 69 dB
Consumption at Night / Standby	< 2 W
Cooling	Forced Air

STANDARDS	
Anti-Islanding / Grid Regulation	VDE-AR-N 4105; VDE-AR-N 4110; VDE-AR-N 4120; VDE 0126-1-1;
LVRT	IEC 62910;
EMC	IEC 61000;
Safety Testing	IEC 62109-1 & IEC 62109-2;
Efficiency	IEC 61683;
Environmental Testing	IEC 60068;
Enclosure Protection	IEC 60529;
CE Conformity	Yes

COMMUNICATION	
Communication Interface	Modbus RS-485, SUB_1G, Wi-Fi (Optional)
Digital Inputs	Yes; 6 Nos.
Dry Contacts	Yes; 2 Nos.
Emergency Power Off (EPO)	Yes; 1 Nos.
Display	LED Indicators, Data visualization via Gateway / Commissioning software; Wi-Fi + APP (Optional)
Built-in Energy Data Logger	Yes

WARRANTY	
Standard Warranty ⁶	5 Years

Notes

- The Max Withstand Voltage is 1100 V_{DC}.
(Inverter will stop generating output power when input voltage is over 1000 V_{DC})
- Ambient < 15°C : 520 ~ 950 V_{DC} ; Ambient < 40°C : 520 ~ 800 V_{DC} ;
Ambient < 50°C : 520 ~ 720 V_{DC} ;
- At Unity Power Factor (VA = W)
- AC Voltage and Frequency range will be programmed according to the individual country requirements.
- 2 Strings / MPPT - Fuse free design; 3 strings / MPPT - External Fuses required (Optionally provided upon request)
- Refer to Delta's Standard Warranty Terms and Conditions for more details.