

C NELTA

PV INVERTER Three-Phase / M100_210

Features

- Excellent performance with max. 99% efficiency
- Toggle latch, lightweight and ground mount design
- Bluetooth for quick commission via APP
- PC and APP tools enable plant-level commission
- Smart cooling system ensures high yield and performance
- Optional type I+II SPD surge protection



Product Overview

Delta's M100_210 three-phase PV inverter features 99% efficiency and an MPP tracker that can help plant operators to maximize energy yield and profitability.

Besides, M100_210 supports SUB_1G which can realize wireless communication in solar plant and make construction and maintenance easier The toggle latch, ground mount design, and plant-level commission tools ensure quick and simple installation while optimizing the operation efficiency of PV plants.



Feature Highlights

Wireless Communication APP

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



Fast Installation

The M100_210 supports wall mount installation and ground mount installation, which can shorten installation times and save on the cost for additional racks.

Wall Mount







Ground Mount



Toggle Latch Design

The toggle latch design saves considerable time for maintenance and minimizes the risk of water intrusion.



System Architecture



Installation Scenario



Specifications

Model Number	M100_210
DC Input	
Max. Input Voltage	1100 V
Operating Voltage Range	570 - 1000 V
MPP Voltage Range @ AC 400V	590 - 860 V*
Start Voltage	610 V
Nominal DC Voltage	590 V
MPP Tracker	1
Max. Operating Current	185 A
Max. Short Current Capability (Isc)	250 A
DC Connection Type	Terminal bus bar, Max. 185 mm ² Cu and Al conductor
Surge Protection	Type II SPD (built-in) ; Type I+II SPD (optional)
AC Output	
Max. Output Power	110 kVA
Max. Output Current	160 A
Output Power	100 kW @ 40°C ; 110 kW @ 35°C (400 V)
Nominal AC Voltage	AC 400 V , 3Ø3W or 3Ø4W
AC Voltage Range	80% to 130% of nominal AC voltage
Operating Frequency Range	50 / 60 ±5 Hz
Power Factor	0.8 ind ~ 0.8 cap (adjustable)
Night Time Reactive Power	60 kVAR
Surge Protection	Type II SPD (built-in) ; Type I+II SPD (optional)
T.H.D	< 3% at Rated output current
AC Connection Type	Terminal block, Max. 185 mm ² Cu and Al conductor
Night Time Consumption	< 3.5 W
Efficiency	
Peak Efficiency	99.0 %
Euro Efficiency	98.7 %
Communication	
Communication Port	RS-485, Bluetooth
Communication Protocol	Delta, Sunspec
Indicator	LED (Alarm, Grid, COMM.)
Certificate	
Grid Support	IEC 62109-1/-2 IEC 62116 EN 61000-6-2 VPC IEC 61727 IEC 61683 EN 61000-6-3 VPC
General Information	
Protection	Arc fault detection, Leakage current protection, Insulation resistance detection
Features	Night time Anti-PID, String current monitoring, IV curve scanning, Night time reactive power
Operating Elevation	< 4000 m
Operating Temperature	-25 to 60°C, > 40°C smart de-rating
Protection Level	IP66
Cooling	Smart fan air cooling
Noise	65.2 dBA @1m, Amb25°C
Dimension (W x H x D)	699 x 629 x 264 mm
Weight	67 kg

* Ambient < 15°C: 590~860V ; Ambient < 30°C: 590~840V ; Ambient < 40°C: 590~760V

* Specifications are subject to change without prior notice.

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