



PV INVERTER

Three-Phase / M20A_220

Features

- Natural cooling design
- Toggle latch design and fast installation design
- Wireless communication ,APP quick commission and monitoring
- Fuseless design
- 2 MPP Trackers
- Night time reactive power and anti-PID function
- IP66 and lightweight design
- Built in DC switch, SPD, String monitoring and Arc fault detection

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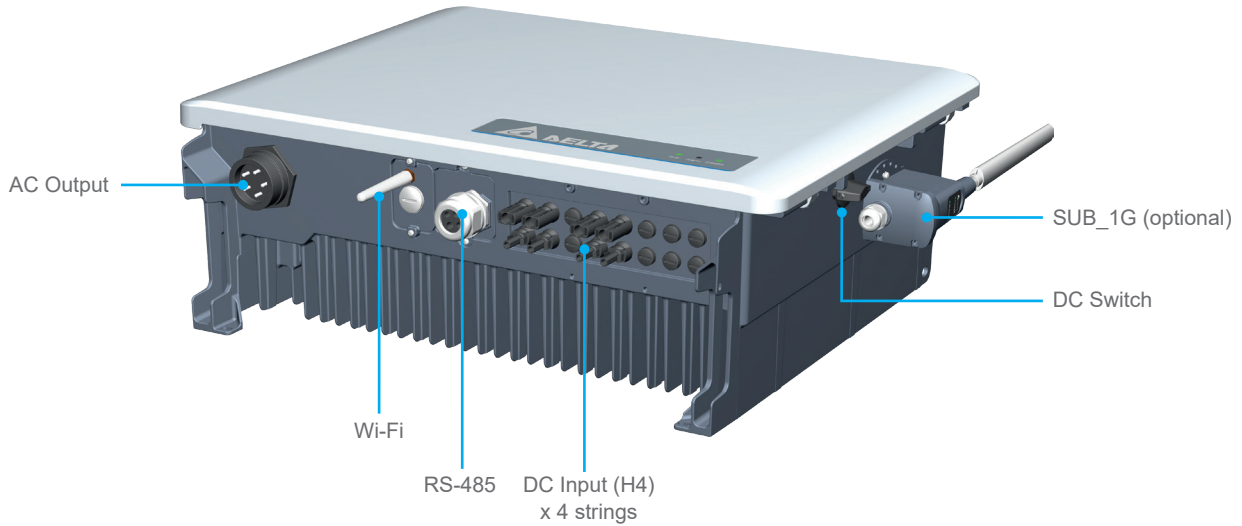


Product Overview

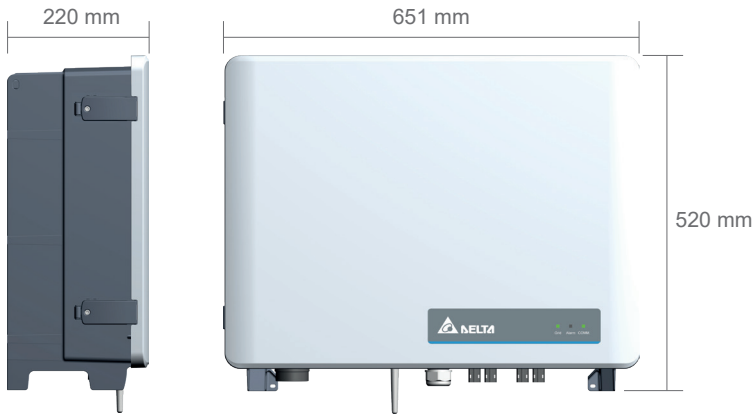
Delta M20A_220 is able to reach 98.5% peak efficiency, 98.1% Euro-efficiency over converting PV energy. 2 sets of MPP allows more flexibility when PV arrays are facing different directions while minimizing energy losses and maximizing higher yields.



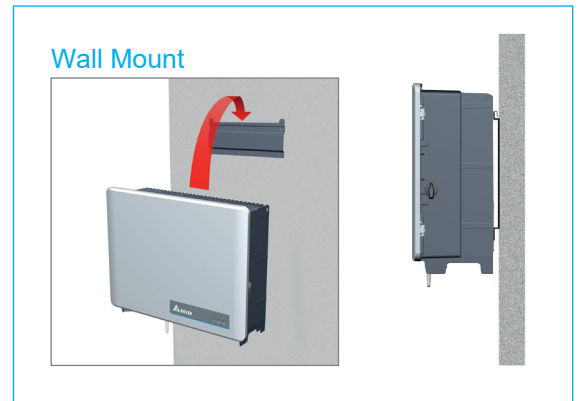
Form Factor



Dimensions



Installation Guide



APP & Cloud

Only need one Wi-fi router to enjoy Delta cloud service.

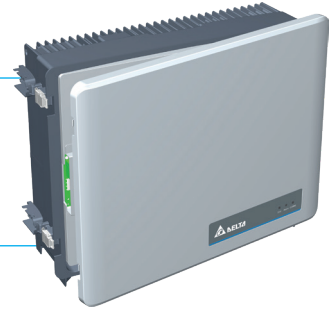


MyDeltaSolar Cloud



Fast Installation

Delta M20A_220 with the H4 fast connects which allows easy plug in during installation. The toggle latch design saves considerable time for maintenance and minimizes the risk of water intrusion.



Specifications

Model Number	M20A_220			
DC Input				
Max Input Voltage	1100 V			
Operating Voltage Range	200 - 1000 V			
MPP Voltage Range (Full Power)	480 - 900 V (Amb <40 °C)			
Start Voltage	> 250 V			
Nominal DC Voltage	600 V			
Max Input Current	Each MPPT: 26 A, Total: 48 A			
MPP Tracker	2			
Connection Type	4 strings(2 pairs / MPPT), Amphenol H4 DC Connector			
Max. Short Current Capability (Isc)	50 A / MPPT			
DC Switch	Built-in			
Surge Protection	Type II SPD			
AC Output				
Max. Output Power	22 kVA ¹⁾			
Max. Output Current	32 A			
AC Output Power	20 kW @40°C ; 22 kW @35°C			
Nominal AC Voltage	3 Ph 220 / 380V, 230 / 400V Y or Δ			
Operating Voltage Range	80% to 130% of Nominal AC Voltage			
Operating Frequency Range	50 / 60 Hz ± 5 Hz			
Power Factor (Adjustable)	0.8 lead - 0.8 lag			
Surge Protection	Type II SPD			
T.H.D	< 3%			
AC Connection Type	Plug Type, cable size 8 - 14 mm ²			
Night Time Consumption ²⁾	< 2 W			
Efficiency				
Peak Efficiency	98.5%			
Euro Efficiency	98.1%			
Information				
Communication Port	RS-485 / Wi-Fi (optional: SUB_1G)			
Display	LED (Grid, Alarm, COMM.)			
Certification				
	IEC 62109-1/-2	CNS 15382	VDE-AR-N 4105	EN/IEC 61000-6-1/-2
	IEC 62920	CNS 15426-1/-2	VDE-AR-N 4110	EN/IEC 61000-6-3/-4
General Data				
Protection	Arc fault detection, DC reverse polarity detection, leakage current protection, Insulation resistance detection			
Features	Night time Anti-PID, String current monitoring, IV curve scanning, Night time reactive power			
Operating Temp. Range	-25 to +60°C (derating > 40°C)			
Protection Level	IP66			
Operating Elevation	< 4000 m			
Cooling	Natural Cooling			
Noise	31.6 dBA @1m, Amb 25°C			
Dimension (W x H x D)	651 x 520 x 220 mm			
Weight	40.5 kg			

1) 530 - 900 Vdc

2) Night time consumption with standby communication

*All specifications are subject to change without prior notice



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