



## PV INVERTER

### Commercial Series / M30A\_231

#### Features

- Natural cooling design
- Toggle latch design and fast installation design
- Wireless (SUB\_1G / Wi-Fi) communication and APP quick commission
- Fuseless design
- 3 MPP Trackers
- Night time reactive power
- IP66 and lightweight
- Built in DC switch, SPD and string monitoring function

[www.deltaww.com](http://www.deltaww.com)

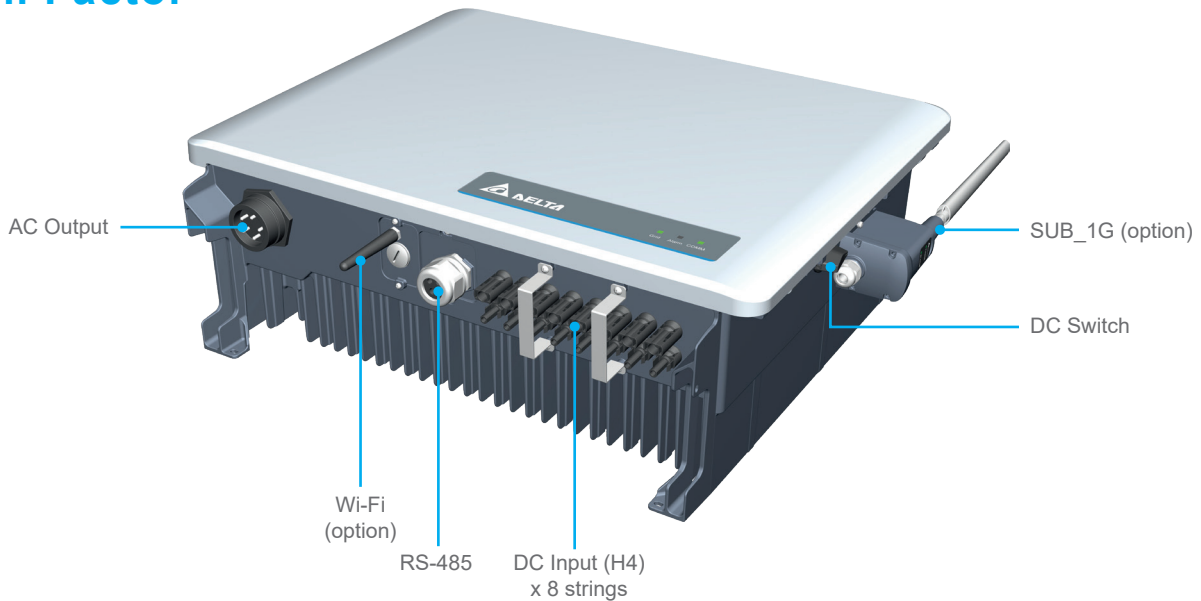


## Product Overview

Delta M30A\_231 is able to reach 98.6% peak efficiency, 98.2% Euro-efficiency over converting PV energy. 3 sets of MPP allows more flexibility when PV arrays are facing different directions while minimizing energy losses and maximizing higher yields.



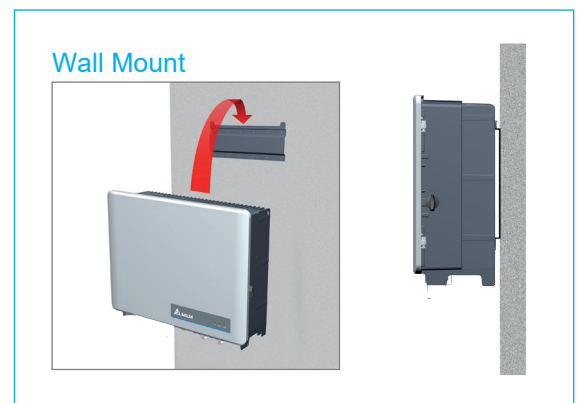
## Form Factor



## Dimensions



## Installation Guide



## Fast Installation

Delta M30A\_231 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	M30A_231
<b>DC Input</b>	
Max. Input Voltage	1000 V
Operating Voltage Range	200 - 1000 V
MPP Voltage Range (Full Power) <sup>1)</sup>	480 - 900 V
Start Voltage	> 250 V
Nominal DC Voltage	600 V
Max. Input Current	Each MPPT: 30 A, Total: 72 A
Max. Input Power	20.4 kW / MPPT
Max. Allowable Array Isc	50 A / MPPT
MPP Tracker	3
Connection Type	8 strings (MPPT1&2: 3 pairs / MPPT ; MPPT3: 2 pairs / MPPT), Amphenol H4 DC Connector
DC Switch	Built-in
String Monitoring	Built-in
ARC Fault Detector	Built-in
Surge Protection	Type II SPD
<b>AC Output</b>	
Rated / Max. Apparent power	30 kVA
Rated Output Power	30 kW
Max. Output Current	50 A
Output Power	30 kW @ 40°C
Nominal AC Voltage	3Ph 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 16 - 25 mm <sup>2</sup>
Night Time Consumption <sup>2)</sup>	< 2 W
<b>Efficiency</b>	
Peak Efficiency	98.6%
Euro Efficiency	98.2%
<b>Information</b>	
Communication Port	RS-485 (optional: SUB_1G / Wi-Fi)
Display	LED (Grid, Alarm, Comm.)
<b>Certification</b>	
	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
<b>General Data</b>	
Operating Temp. Range	-25 to +60°C (derating > 40°C)
Protection Level	IP66
Operating Elevation	< 4000 m
Cooling	Natural Cooling
Dimension (W x H x D)	651 x 520 x 220 mm
Weight	42 kg
Country of Manufacture	China

1) 30 kW

2) Night time consumption with standby communication

\*All specifications are subject to change without prior notice



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