



## PV INVERTER

Three-Phase / M100A\_280

### Features

- Excellent performance with max. 98.7% efficiency
- Toggle latch and fast installation design reduce installation efforts
- Built-in DC switches, SPD, String monitoring and Arc fault detection
- SUB\_1G and Wi-Fi for quick commission via APP
- PC and APP tools enable plant-level commission
- Smart cooling system ensures high yield and performance
- IP66 and lightweight design



Rooftop



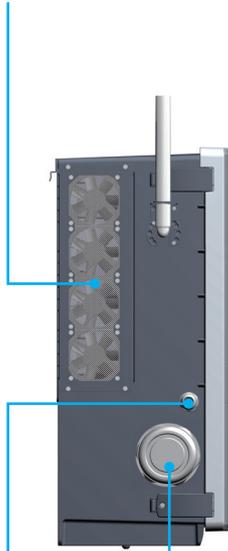
Ground  
Mounted



# Feature Highlights

## Swappable Fan Kit

Smart cooling system enhances overall plant performance while minimizing noise.



AC Output

Cable Gland for Communication  
(RS-485 / Dry Contact / DI)

SUB\_1G  
(optional)

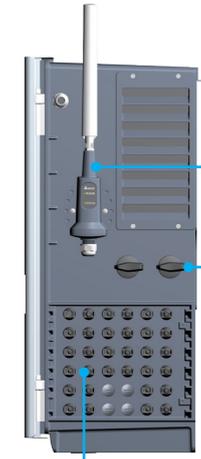


## Wireless Communication (SUB\_1G/Wi-Fi) APP

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



Wi-Fi (optional)



DC Input (H4)  
× 16 strings

DC Switch

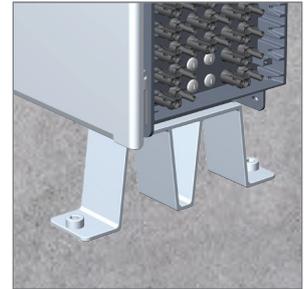
## Fast Installation

The M100A\_280 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

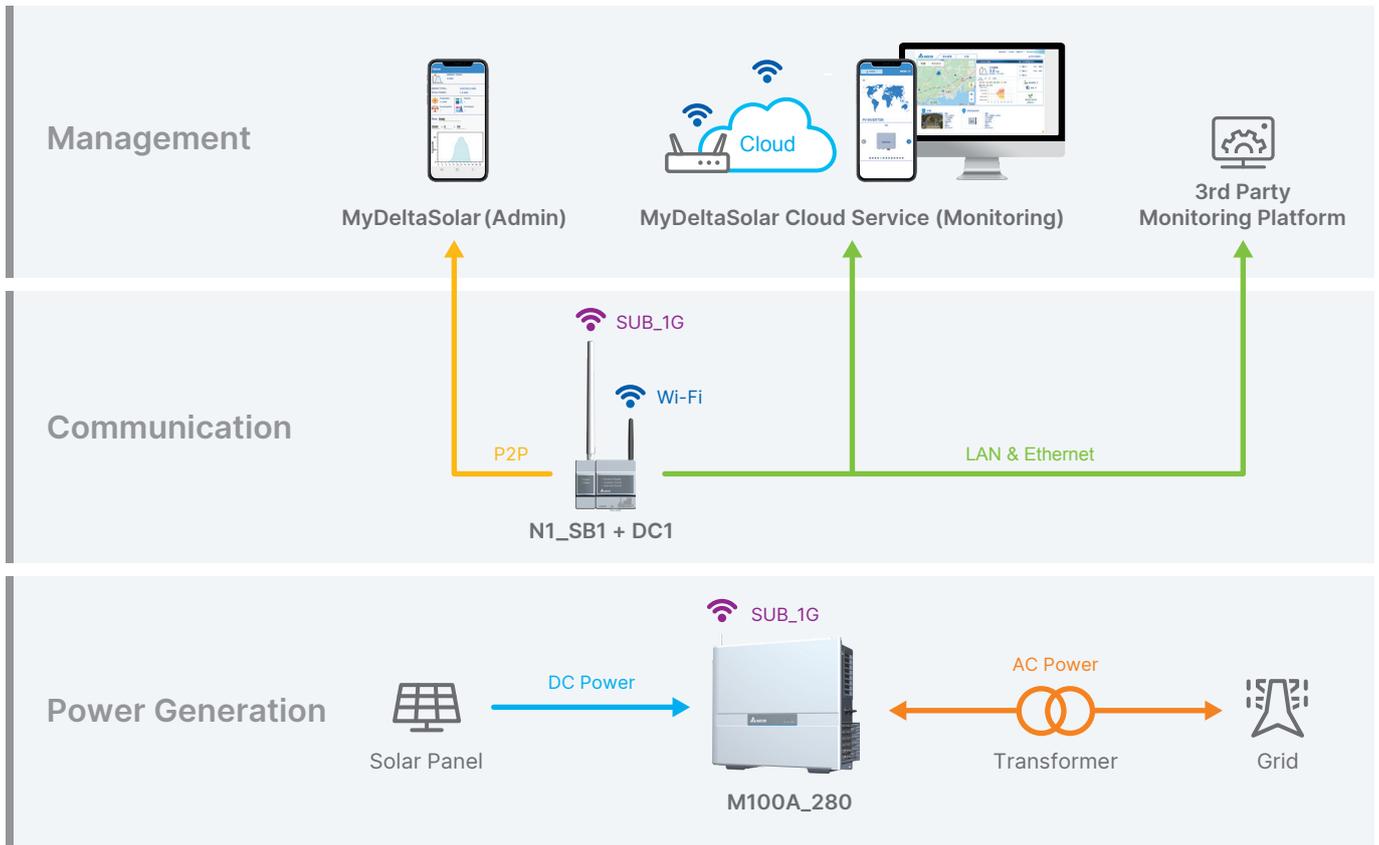
The toggle latch design saves considerable time for maintenance and minimizes the risk of water intrusion.



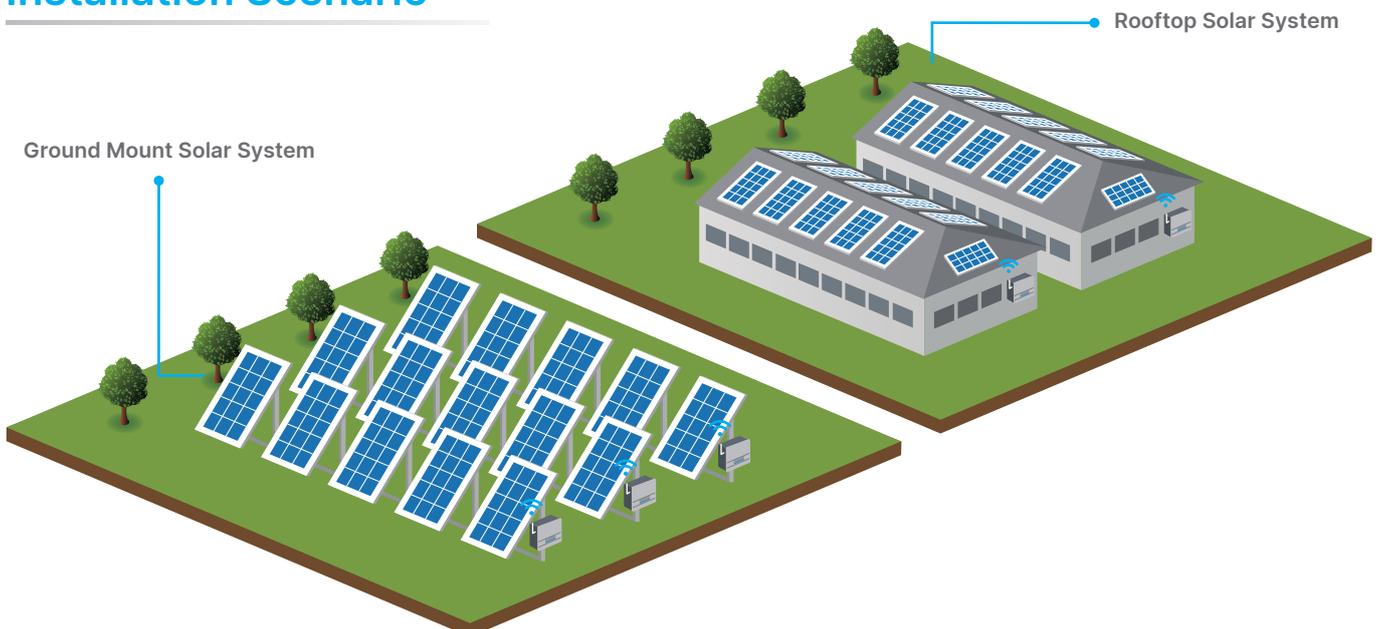
## Product Overview

- Delta M100A\_280 is able to reach 98.7% peak efficiency, 98.4% Euro-efficiency over converting PV energy.
- Eight MPPT design with wide MPP voltage range (520~840V) can maximize customer's revenue.

## System Architecture



## Installation Scenario



# Specifications

<b>Model Number</b>	<b>M100A_280</b>				
<b>DC Input</b>					
Max. Input Voltage	1100 V				
Operating Voltage Range	200 - 1000 V				
MPP Voltage Range for nominal power	520 - 840 V				
Nominal DC Voltage	600 V				
MPP Tracker	8				
Max. Operating Current	30 A / MPPT				
Max. Short Current Capability (Isc)	50 A / MPPT				
DC Connection Type	16 pairs of Amphenol H4 DC Connector				
Surge Protection	Type II SPD (built-in); Type I+II SPD (optional)				
DC Switch	2 pcs				
<b>AC Output</b>					
Max. Output Power	110 kVA				
Max. Output Current	160 A				
Output Power	100 kW @ 50°C; 110 kW @ 40°C				
Nominal AC Voltage	AC 400 V, 3Ø3W or 3Ø4W				
AC Voltage Range	88% to 120% of nominal AC voltage				
Operating Frequency Range	50 / 60 Hz ± 5 Hz				
Power Factor	0.8 ind - 0.8 cap				
Night Time Reactive Power	60 kVAR				
Surge Protection	Type II SPD				
T.H.D	< 3% at Rated output current				
AC Connection Type	Screw Clamp Terminal supports, Max. 185 mm <sup>2</sup> , Cu and Al conductor				
Night Time Consumption	< 3.5 W				
<b>Efficiency</b>					
Peak Efficiency	98.7 %				
Euro Efficiency	98.4 %				
<b>Communication</b>					
Communication Port	RS-485 (built-in); SUB_1G, Wi-Fi (optional)				
Communication Protocol	Delta, Sunspec				
Indicator	LED (Alarm, Grid, COMM.)				
<b>Certificate</b>					
Grid Support	IEC-62109-1/-2    VDE-ARN 4110    EN50549-2    PEA/MEA    VPC				
<b>General Information</b>					
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 Elevation	< 4000 m				
Operating Temperature	-25 to 60°C, > 50°C smart de-rating				
Protection	IP66				
Cooling	Smart fan air cooling				
Noise	65.2 dBA @ 1m, Amb 25°C				
Dimension (W × H × D)	699 × 629 × 264 mm				
Weight	77 kg				

\* Specifications are subject to change without prior notice.

## Delta Electronics (Thailand) PCL.

909 Soi 9, Moo 4, Bangpoo Industrial Estate (E.P.Z.), Pattana 1 Rd., T.Prakasa, A. Muang, Samutprakarn 10280 Thailand  
 TEL: +66 (0) 2709-2800  
 FAX: +66 (0) 2709-3200