



The power behind competitiveness

Delta M24U/M28U/M36U/M42U

Grid-tied, 3-phase and transformerless PV Inverter

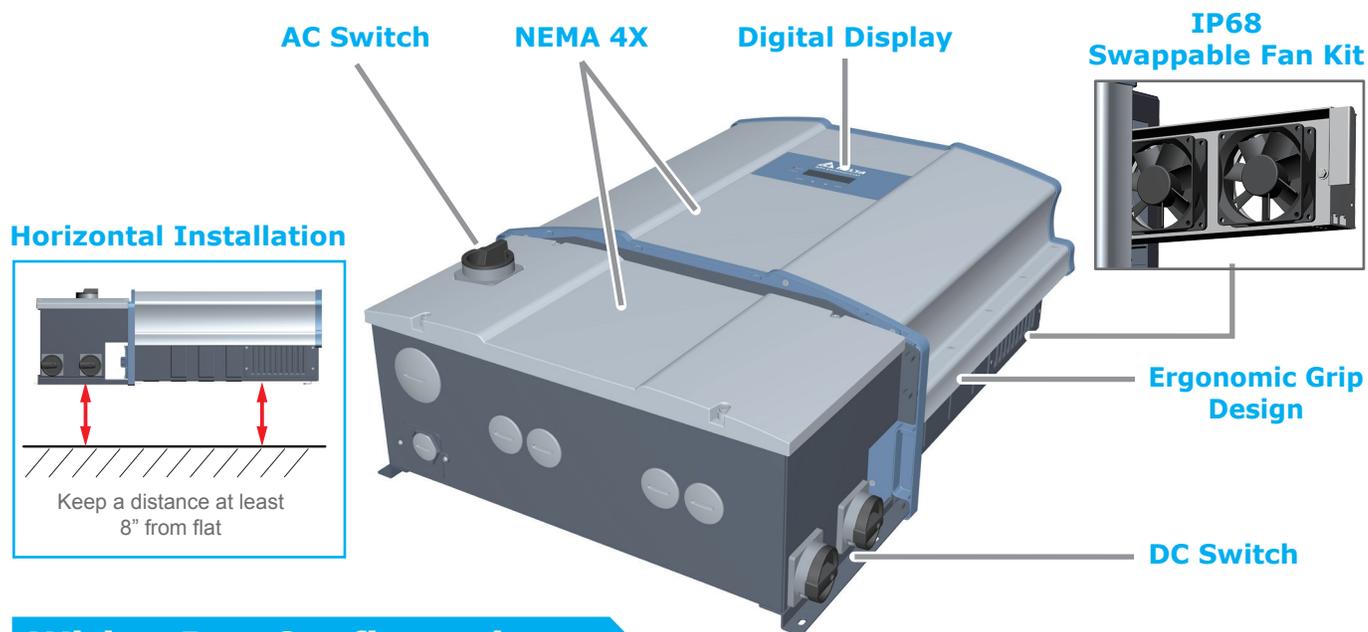


Product Features

- Two stage topology with wide input operation range, 200 to 1000 Vdc
- Allow 0-90° mounted installation
- Dual MPP tracker inputs
- Superior efficiency performance, 98.6% peak & 98.0% CEC
- Capable of landing 6-10 strings via fused inputs
- NEMA 4X outdoor rated enclosure
- Ergonomics grip design
- Integral DC Arc fault detector
- Integral AC & DC disconnects
- Integral type 2 SPDs at AC & DC terminals
- Operating temp. range -25°C to +60°C

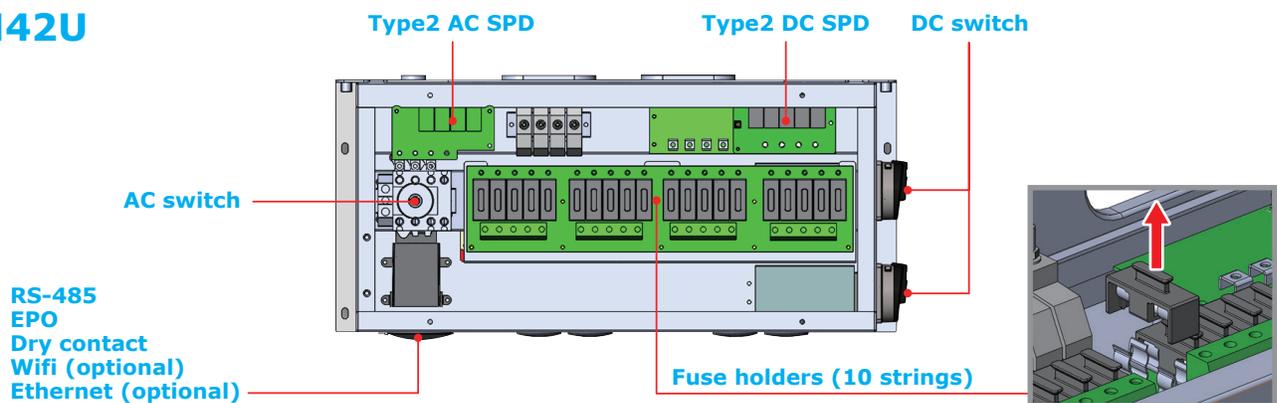


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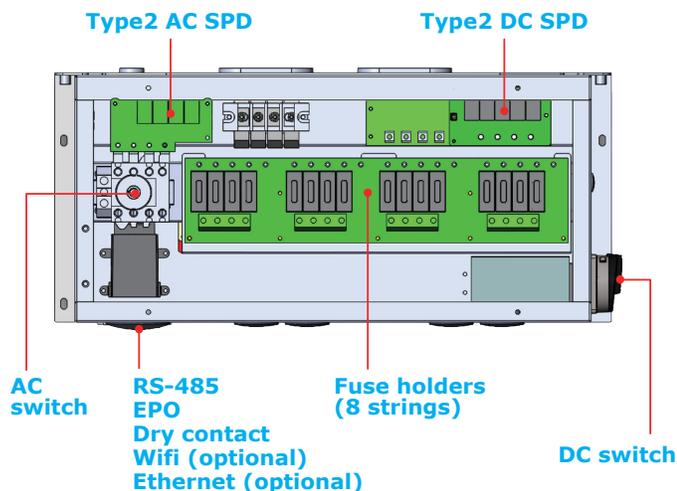


Wiring Box Configurations

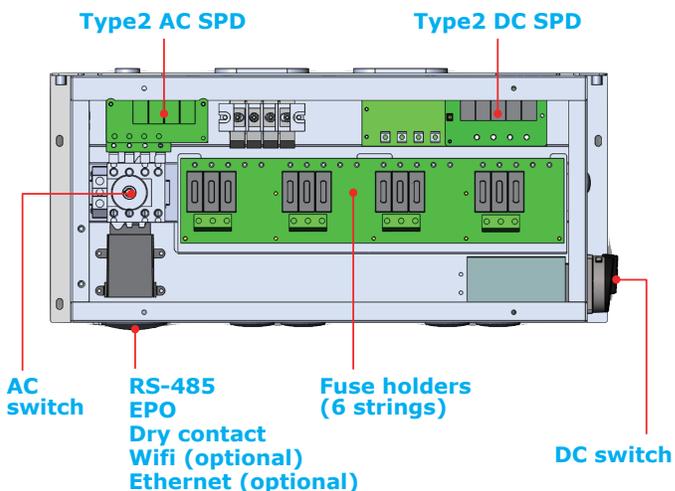
M42U



M36U



M28U / M24U



Outstanding performance

All models have excellent efficiency performance, peak 98.6% and CEC 98.0%.



Benefits with M24U/M28U/M36U/M42U

Multi-application:

Designed for commercial, industrial and utility applications.

All-in-one Design:

String fuses, surge protection devices, DC switches and arc fault detection circuit are integrated into the design.

Saving on Space Cost:

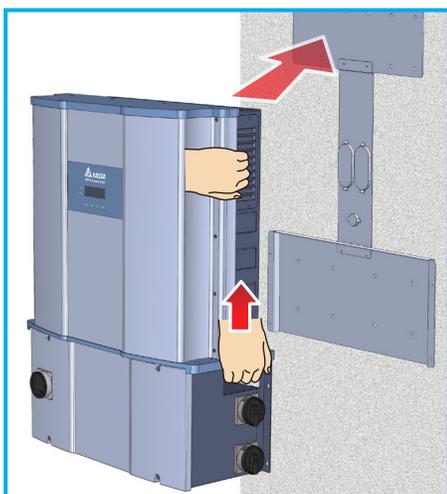
Horizontal mounting allows under array location without need for additional housing.

Two MPP Trackers:

The use of two MPP trackers provides greater flexibility in PV array configuration leading to a maximized yield.

Easy Installation

Ergonomic grip design provides easy installation or removal by the installer. For additional flexibility, eye bolts are provided to allow for lifting using crane.



Delta Commercial Series

Model	RPI M24U	RPI M28U	RPI M36U	RPI M42U	
DC Input					
Recommended PV power	≤34W	≤39kW	≤50kW	≤60kW	
Max. input voltage	1100V				
Operating voltage range	200-1000V				
Start voltage	250V				
MPP voltage, rated power	415~830V	485~830V	520~830V	545~830V	
Rated voltage	710V				
MPP tracker	2				
Max. operating current / Each MPPT	60A / 30A	60A / 30A	72A / 36A	80A / 40A	
Connection type	6 pairs of 6~14AWG fuse holder		8 pairs of 6~14AWG fuse holder	10 pairs of 6~14AWG fuse holder	
Protection	Type2 SPD + 15A string fuse with housing				
DC Switch	Yes				
AC Output					
Rated output power	24kW/24kVA	28kW/28kVA	36kW/36kVA	42kW/42kVA	
Max. output power	26.4kW/26.4kVA	30.8kW/30.8kVA	39.6kW/39.6kVA	46kW/46kVA	
Max. output current	32.1A	37.5A	48.2A	56.2A	
Rated voltage	3Ph 277/480V Y or Δ				
Operating voltage range	±20%				
Operating frequency range	50/60Hz ±5Hz				
Power factor	Unity at rated power, 0.8 ind ~ 0.8 cap adjustable				
Protection	Type 2 SPD				
THD	<3%, at rated power				
Connection type	6~4 AWG				
Night time consumption	<3W				
Efficiency					
Peak efficiency	98.6%	98.6%	98.6%	98.6%	
CEC efficiency	98.0%	98.0%	98.0%	98.0%	
Communication port	RS-485				
Display	20 x 4 LCD				
Regulation					
UL1741, UL1998, UL 1699B, IEEEE1547, IEEEE1547.1 EN61000-6-2, EN61000-6-3, IEC 62109-1/-2					
General Data					
Smart inverter functionality	Voltage/Frequency Ride through, Volt/Var, Volt/Watt, Power curtailment, Frequency/Watt				
Operating temp. range	-13°~140°F (-25°~60°C)				
Protection level	NEMA 4X				
Operating elevation	<9800ft (<3000m)				
Cooling	Forced air cooling				
Dimension (in)	24.2 x 32.3 x 11				
Weight (lb)	W/ Wiring box	126.8	126.8	128.9	131.1
	W/O Wiring box	99.2			

- All specifications are subject to change without prior notice.

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