

## Single Phase Solar Inverter for North America

M4-TL-US | M5-TL-US | M6-TL-US | M8-TL-US | M10-TL-US | M10-4-TL-US



### Key Features:

- Smart inverter with BLE, optional WiFi, Ethernet, 3G / 4G cellular communication
- Optional revenue grade meter (compliant with ANSI C12.20, Class 0.5)
- Support bi-directional cloud communication
- Support remote diagnosis and OTA
- Type 4 protection
- Built-in AFCI & Rapid shutdown controller
- CEC efficiency 97.5%
- UL 1741 SB, HECO compliant
- CA Rule 21 Phase 1 & 2 & 3 compliant

Model	M4-TL-US	M5-TL-US	M6-TL-US	M8-TL-US	M10-TL-US	M10-4-TL-US
<b>INPUT (DC)</b>						
Max. system voltage	600 V					
Nominal voltage	380 V					
Max. operating voltage	540 V					
Operating MPPT voltage range	50 V to 480 V					
Max. input current per MPPT	12 A	12 A	12 A	12 A	20 A	12 A
Max. short circuit current per MPPT	15 A	15 A	15 A	15 A	30 A	15 A
Max. DC/AC ratio <sup>1)</sup>	1.35					
DC disconnect	Integrated					
MPP tracker	2	2	3	3	2	4
Input strings available	2 - 2	2 - 2	2 - 2 - 2	2 - 2 - 2	2 - 2	2 - 2 - 2 - 2
<b>OUTPUT (AC)</b>						
Nominal output power @ 240Vac	3840 W	4800 W	5760 W	7680 W	9600 W	9600 W
Max. output power @ 240Vac	4000 W	5000 W	6000 W	8000 W	10000 W	10000 W
Nominal output power @ 208Vac	3328 W	4160 W	4992 W	6656 W	8320 W	8320 W
Max. output power @ 208Vac	3648 W	4560 W	5472 W	7296 W	9120 W	9120 W
AC operating voltage range	183 Vac to 228 Vac @ 208 Vac 211 Vac to 264 Vac @ 240 Vac					
Max. continuous current	16 A	20 A	24 A	32 A	40 A	40 A
Nominal operating frequency	60 Hz					
Operating frequency range	59.3 Hz to 60.5 Hz					
Adjustable frequency range	50 Hz to 66 Hz					
Night consumption	< 1.5 W <sup>2)</sup>					
THD @ nominal power	< 3 %					
Power factor @ nominal power	> 0.99					
Adjustable power factor range	0.85i to 0.85c					
<b>GENERAL SPECIFICATION</b>						
Max. efficiency	98%					
CEC efficiency	97.0 % @ 208 V 97.5 % @ 240 V	97.5 % @ 208 V 97.5 % @ 240 V	97.0 % @ 208 V 97.5 % @ 240 V	97.5 % @ 208 V 97.5 % @ 240 V	97.5 % @ 208 V 97.5 % @ 240 V	97.0 % @ 208 V 97.5 % @ 240 V
Operating temperature range	-22 °F to 149 °F (-30 °C to 65 °C) with derating above 113 °F (45 °C)					
Storage temperature range	-40 °F to 185 °F (-40 °C to 85 °C)					
Humidity	0% to 95%					
Max. operating altitude	9,843 ft (3,000 m)					
Acoustic noise	< 45 dB(A) @ 3 ft (1m)					

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<b>MECHANICAL DESIGN</b>						
Dimensions (W x H x D)	16.7 x 23.2 x 5.9 in (425 x 590 x 150 mm)					
Display	LED indicators					
Weight <sup>3)</sup>	41.9 lbs (19.0 kg)	41.9 lbs (19.0 kg)	44.3 lbs (20.1 kg)	45.2 lbs (20.5 kg)	47.6 lbs (21.6 kg)	47.6 lbs (21.6 kg)
Cooling	Natural convection			Natural convection with internal fan		
DC connection	Spring contact type					
AC connection	Spring contact type					
Communication interface	BLE, optional WiFi, Ethernet, 3G / 4G cellular communication					
Remote diagnose/monitoring	Bi-direction via cloud					
Remote firmware update	Via cloud (optional)					
Enclosure material	Die-casting aluminum					
<b>STANDARDS</b>						
Enclosure protection rating	Type 4					
Safety	UL 1741, CSA-C22.2 No. 107.1-16					
Software approval	UL 1998					
Ground fault protection	UL 1741 CRD					
Anti-islanding protection	IEEE 1547-2018, IEEE 1547.1-2020					
EMC	FCC part 15 Class B					
AFCI	UL 1699B (Type 1), NEC 2020 Article 690.11					
Rapid shutdown protection	NEC 2020 690.12 <sup>4)</sup>					
Rapid shutdown transmitter	Optional pre-installed <sup>5)</sup>					
Integrated meter	ANSI C12.20, Class 0.5					
Grid support regulation	UL 1741 SB, California Rule 21 phase 1 & 2 & 3, HECO Compliant					
<b>WARRANTY</b>						
Standard warranty	10 years					

- 1) Please refer to technical note for detailed string configuration
- 2) Without consumption of communication card
- 3) Without weight of revenue grade meter
- 4) Compliant with APS rapid shutdown system or Tigo rapid shutdown system.  
Compliant with Delta MCI or Delta Smart RSS as part of listed  
or field labeled PV Hazard Control System/PV Rapid Shutdown Array.
- 5) Optional pre-installed with APS rapid shutdown transmitter or Tigo rapid shutdown transmitter



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