

Single Phase Solar Inverter for North America

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



Key Features:

- Smart inverter with BLE, optional WiFi, Ethernet, 3G / 4G cellular communication
- Support bi-directional cloud communication
- Support remote diagnosis and OTA
- Type 4 protection
- Built-in AFCI & Rapid shutdown controller
- CEC efficiency 97.5%
- Option: Revenue Grade Meter: ANSI 12.20 (0.5% accuracy)
- UL 1741 SA, HECO & CA Rule 21 compliant

SPECIFICATIONS

Model	M4-TL-US	M5-TL-US	M6-TL-US	M8-TL-US	M10-TL-US
INPUT (DC)					
Maximum system voltage	600 V				
Nominal voltage	380 V				
Maximum operating voltage Voc	540 V				
Operating MPPT range	50 V to 480 V				
Maximum input current (per MPPT)	12 A	12 A	12 A	12 A	20 A
Maximum short circuit current @ STC	15 A / 15 A	15 A / 15 A	15 A / 15 A / 15 A	15 A / 15 A / 15 A	25 A / 25 A
Maximum DC/AC ratio	1.3				
DC disconnect	Integrated				
MPP tracker	2	2	3	3	2
Input strings available	2 - 2	2 - 2	2 - 2 - 2	2 - 2 - 2	2 - 2
OUTPUT (AC)					
Nominal power @ 240V	3840 W	4800 W	5760 W	7680 W	9600 W
Maximum output power	4000 W	5000 W	6000 W	8000 W	10000 W
Voltage range	183 Vac to 228 Vac @ 208 Vac 211 Vac to 264 Vac @ 240 Vac				
Maximum continuous current	16 A	20 A	24 A	32 A	40 A
Nominal frequency	60 Hz				
Frequency range	59.3 Hz to 60.5 Hz				
Adjustable frequency range	50 Hz to 66 Hz				
Night consumption	< 1.5 W *				
THD @ nominal power	< 3 %				
Power factor @ nominal power	> 0.99				
Adjustable power factor range	0.85i to 0.85c				
GENERAL SPECIFICATION					
Maximum 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
Operating temperature range	-22 °F to 149 °F (-30 °C to 65 °C) de-rating above 113 °F (45 °C)				
Storage temperature range	-40 °F to 185 °F (-40 °C to 85 °C)				
Humidity	0% to 95%				
Maximum operating altitude	9,843 ft (3,000 m)				
Acoustic noise	< 45 dB(A) @ 3 ft (1m)				

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MECHANICAL DESIGN					
Dimensions (W x H x D)	16.7 x 23.2 x 5.9 in (425 x 590 x 150 mm)				
Weight ¹⁾	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)
Cooling	Natural convection			Natural convection with internal fan	
DC connection	Spring contact type				
Admissible conductor size DC	AWG 12 to AWG 8			AWG 10 to AWG 8	
AC connection	Spring contact type				
Admissible conductor size AC	AWG 10 to AWG 6			AWG 8 to AWG 6	
Communication interface	BLE, optional WiFi, Ethernet, 3G / 4G cellular communication				
Enclosure material	Die-casting aluminum				
STANDARDS / DIRECTIVES					
Enclosure protection rating	Type 4				
Safety	UL 1741, CSA-C22.2 No. 107.1-01				
Software approval	UL 1998				
Ground fault protection	UL 1741 CRD				
Anti-islanding protection	IEEE 1547, IEEE 1547.1				
EMC	FCC part 15 Class B				
AFCI	UL 1699B (Type 1), NEC 2017 Article 690.11				
Integrated meter	ANSI C12.20 (meets 0.5% accuracy)				
Grid support regulation	UL 1741 SA, California Rule 21 phase 1, 2 (pending), HECO Compliant				
WARRANTY					
Standard warranty	10 years				



1) Without communication meter

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