

Single Phase Solar Inverters for North America

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



Key Features:

- Smart inverter with Bluetooth, optional WiFi, Zigbee, 3G/4G cellular communication
- Field upgrade-able from solar inverter (M6, M8) to storage system by adding battery pack and software upgrade
- Supporting bi-directional cloud communication & monitoring
- Type 4 protection with natural convection cooling
- Built-in AFCI & Rapid shutdown controller
- No field commissioning required
- CEC efficiency 97.5%
- Option: Revenue Grade Meter: ANSI 12.20 (0.5% accuracy)
- UL 1741SA, 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 string)	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	1.5				
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 229 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	57.0 Hz to 63.0 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				
Acoustic noise	< 45 dB(A) @ 3 feet				
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	Available Q1/2019
Operating temperature range	-22 °F to 149 °F de-rating above 113 °F				
Storage temperature range	-40 °F to 185 °F				
Humidity	0 % to 95 %				
Maximum operating altitude	9800 ft (3000 m)				

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Model	M4-TL-US	M5-TL-US	M6-TL-US	M8-TL-US	M10-TL-US
GENERAL SPECIFICATION					
Size (L x W x D)	23.2 x 16.7 x 5.9 in (425*590*150 mm)				
Weight	44 lbs (20 kg)	44 lbs (20 kg)	44 lbs (20 kg)	44 lbs (20 kg)	44 lbs (20 kg)
Cooling	Natural Convection			Natural Convection with internal fan	
AC connection	Spring contact type				
Admissible conductor size AC	AWG 10 to AWG 6				
DC connection	Spring contact type				
Admissible conductor size DC	AWG 12 to AWG 8				
Communication interface	Bluetooth 4.0, with ZigBee / Wi-Fi / Cellular (optional)				
Enclosure material	Die-casting Aluminum				
Extended function	Battery compatibility				
STANDARDS / DIRECTIVES					
Enclosure protection rating	Type 4				
Safety	UL 1741, CSA 22.2 No. 107-01				
Software approval	UL 1998				
Ground fault protection	UL 1741 CRD				
Anti-islanding protection	IEEE 1547, IEEE 1547.1				
EMC	FCC part 15 Class B, ICES-003				
AFCI	UL 1699B (Type 1), NEC 2017 Article 690.11				
Integrated meter	ANSI C12.20 (meets 0.5% accuracy)				
Grid support regulation	UL 1741SA, California Rule 21, HECO Compliant				
WARRANTY					
Standard warranty	10 years				



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