



# Solar Inverters

3-phase Transformerless (TL): 15 kW, 20 kW, 24 kW, 28 kW

## Features:

- Dual MPPT Trackers
- Transformerless Design
- Peak Efficiency: 98.5%
- Wide Operating Temperature & Voltage Ranges
- Ultra Compact Size
- NEMA 4X with Convection Cooling
- Integrated AFCI
- RS-485, Bluetooth & SunSpec Modbus Communications
- Built-in: String Fuses, DC Switch
- Optional: DC and AC SPD's



# Technical Data for 3-phase TL Solar Inverters

INPUT (DC)	15kW TL	20kW TL	24kW TL	28kW TL
Operating Voltage Range	130 ~ 1000 V			
Nominal Input Voltage	750V			
Full Power MPPT Range <sup>(1)</sup>	450 ~ 900 V	500 ~ 900 V	550 ~ 900 V	
MPP Tracker	2			
Total Input Strings Available	6			
DC Disconnect	Internal			
<b>OUTPUT (AC)</b>				
Nominal Power <sup>(2)</sup>	15kW	20kW	24kW	28kW
Nominal Grid Voltage	277/480 V			
Maximum AC Current	20.0 A	25.0 A	30.0 A	34.0 A
Nominal Frequency	60 Hz			
Night Consumption	< 1.5 W			
THD @ Nominal Power	< 3%			
Power Factor @ Nominal Power	> 0.99			
Reactive Capacity	0.8 c ~ 0.8 i			
<b>GENERAL SPECIFICATION</b>				
Max. Efficiency	98.5%			
CEC Efficiency	98.0%			
Operating Temperature Range	-13 ~ 158°F (-25 ~ 70°C)   Derating above 113°F (45°C)			
Storage Temperature Range	-40 ~ 185°F (-40 ~ 85°C)			
Humidity	0 ~ 100%			
Max. Operating Altitude	2000m above sea level			
<b>MECHANICAL</b>				
Size L x W x D inches (L x W x D mm)	29.5 x 21.7 x 9.5 in (750 x 550 x 240 mm)			
Weight	110 lbs (49.5 kg)			
Cooling	Natural Convection			
Enclosure Material	Diecast Aluminum			
<b>STANDARDS / DIRECTIVES</b>				
Enclosure Protection Rating	NEMA 4X			
Safety	UL 1741, CSA 22.2 No. 107-01			
EMC	FCC part 15 Class B			
AFCI	UL 1699B, NEC 690.2011, Type 1			
<b>FEATURES</b>				
Communication Interface	RS485, Bluetooth, SunSpec Modbus			
DC Surge Arrestor	SPD II (optional)			
AC Surge Arrestor	SPD III (optional)			
Standard warranty	10 years			

<sup>(1)</sup> Unbalanced PV input allowed, maximum input power for each MPP tracker is limited with 70% rated power.

<sup>(2)</sup> The maximum AC power value indicates the power an inverter might be able to deliver, but such a maximum AC power may not necessarily be achieved.



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