

# TCL



## HIGHER YIELDS

3hrs more generation  
65 °C full-power operation



## SAFETY&RELIABILITY

RSD compliance  
IP67



## FLEXIBLE INSTALLATION

Plug-and-Play design enables  
faster installation



## WIFI SETUP IN 20 SECONDS

Encrypted WiFi solution for  
residential & commercial



# TCL Series

## TCL-MI-800W-P2



Model	TCL800WE-P2
<b>Input Data (DC)</b>	
Commonly Module Power (W)	330 to 550 W +
Operation Voltage Range (V)	14-63 V
MPPT Voltage Range (V) <sup>1</sup>	14-63 V
Start-up Voltage (V)	18 V
Maximum Input Voltage (V)	63 V
Maximum Input Current (A)	2x18 A
Maximum Input Short Circuit Current (A)	2x25 A
DC Portbackfeed Current (A)	0 A
Overvoltage Class DC Port	II
Number of MPPTs	2
Number of Inputs per MPPT	1
<b>Output Data (AC)</b>	
Rated Output Power (VA)	800 VA
Rated Output Current (A)	3.48 A
Maximum Units per 10AWG Branch <sup>2</sup>	9
Maximum Units per 12AWG Branch <sup>2</sup>	5
Nominal Output Voltage (V) <sup>3</sup>	230/240 V
Nominal Frequency (Hz)	50 Hz
Maximum Output Overcurrent Protection (A)	6.5 A
Maximum Output Fault Current (A)	6.5 A
Current Inrush (A)	0
Overvoltage Class AC Port	III
Power Factor (adjustable)	>0.99(default)
Total Harmonic Distortion	<3%
<b>Efficiency</b>	
CEC Peak Efficiency	96.80%
Nominal MPPT Efficiency	99.80%
Nighttime Power Consumption (mW)	< 50 mW
<b>General Data</b>	
Ambient Temperature Range (°C)	-40 to +65 °C
Dimensions (W x H x D mm)	274 x 222 x 37 mm
Weight (kg)	3.2 kg
Enclosure Rating	Outdoor IP67 (NEMA 6)
Relative Humidity	0 ~ 100%, No Condensing
Max. Operation Altitude (m)	2000 m
Pollution Degree	III
Cooling	Natural Convection (no fans)
Communication	WiFi
Monitoring	TCL Cloud <sup>4</sup>
Type of Isolation	Galvanically Isolated
Compliance	
IEC/EN 62091-1 IEC/EN 63109-2, IEC/EN 61000-6-1/-2/-3/-4, EN50549-1:2019, VDE-AR-N 4105:2018, CEI0-21, TOR Erzeuger, R25:2019, EN 300 220-1/2 EN500328, EN501489-1/-3/-17, EN62311, C10/11, PN-EN50549-1:2019, NC-RIF, ORDINANCE 140/2022	

<sup>1</sup> The output power may vary with the output voltage.

<sup>2</sup> Refer to local requirements for exact number of microinverters per branch.

<sup>3</sup> Nominal voltage/frequency can vary depending on local requirements.

<sup>4</sup> TCL Cloud Monitoring System.