



# TP-SC-WiFi

## DATA SHEET

### Wifi Adapter for MPPT Solar

#### Features

- Provides Connectivity up to 100m range
- Designed for Select Tycon® TP-SC MPPT Solar Charge Controllers
- No External Power Source Required
- Water Resistant, Industrial Temperature Range



#### Applications

- Tycon® TP-SC24-30N-MPPT, TP-SC24-60N-MPPT & TP-SC48-60P-MPPT Solar Charge Controllers
- Remote monitoring and control

#### Description

The Tycon Solar™ TP-SC-WiFi wireless adapters are compatible with the following Tycon® MPPT solar controllers: TP-SC24-30N-MPPT, TP-SC-24-60N-MPPT and TP-SC48-60P-MPPT. They connect to either of the two RS485 modbus serial ports included on the MPPT solar controllers. They are powered by the RS485 port so no external power supply is required.

Using a mobile phone with our free Android or IOS Mobile App, a technician can access current and historical readings as well as configure the MPPT solar controllers and control the load on/off manually.

The TP-SC-WiFi must be connected to the same 2.4GHz WiFi access point as the mobile phone in order to make an initial connection. After the initial setup, as long as both the Cloud-Box-M2 and mobile phone have internet access, the status can be monitored remotely.

#### Specifications

	TP-SC-Wifi
<b>Input Voltage</b>	3.3V
<b>Standby Power Consumption</b>	0.05W
<b>Operating Power Consumption</b>	60mA, 0.2W
<b>RF Transmit Power</b>	14 ~ 20dBm
<b>Communication Frequency</b>	802.11b/g/n 2.4GHz
<b>Communication Distance</b>	<100m (300') with good LOS
<b>LED Function</b>	<b>Power LED</b> = Green = Power On <b>Link LED</b> = Blue Steady On, Flash Off every 5 sec – Connected Double Flash – Waiting for Network Configuration Continuous Flash – Trying to Connect
<b>Button Function</b>	<b>Reset</b> – Press momentarily to restart the module <b>Setup</b> – Hold for 6 secs to reset network config
<b>Communication Mode</b>	RS485
<b>Connector Type</b>	RJ45
<b>Cable Length</b>	1.4m (56")
<b>Environmental Protection</b>	IP62
<b>Certifications</b>	CE, RoHS
<b>Operating Temp / Humidity</b>	-40°C to 80°C (-40°F to 176°F) / <90%RH
<b>Dimensions</b>	66 x 51 x 15.5mm (2.6 x 2 x 0.6")
<b>Weight</b>	57g (2oz)
<b>Warranty</b>	3 years

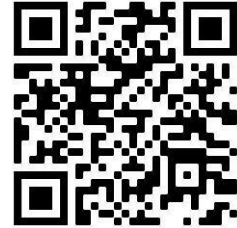


## Mobile Applications

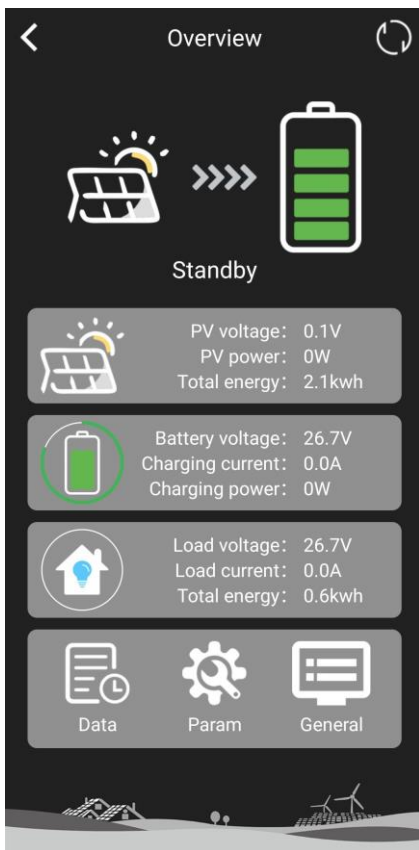
SolarMate Mobile apps are available for Android and IOS devices. QR codes to receive the apps are as follows. Any mobile device with a barcode reader app should be able to read these codes.



Android SolarMate App



IOS SolarMate App



TP-SC24-30N-MPPT  
 TP-SC24-60N-MPPT  
 TP-SC48-60P-MPPT  
 MPPT Solar Controllers



2.4GHz WiFi  
 Connection to  
 Internet



TP-SC-WiFi  
 WiFi Adapter

2.4GHz WiFi or  
 4G/5G Cellular  
 Connection to  
 Internet



Mobile  
 Phone

Typical Application

## System Ordering:

**TP-SC-WiFi** Wireless Adapter for select TP-SCxxxx-MPPT Solar Charge Controllers

For further information contact:

[Tyconsystems.com](http://Tyconsystems.com)



14641 S 800 W Suite A  
 Bluffdale, UT 84065  
 PH: 801-432-0003  
 FAX: 801-618-4220