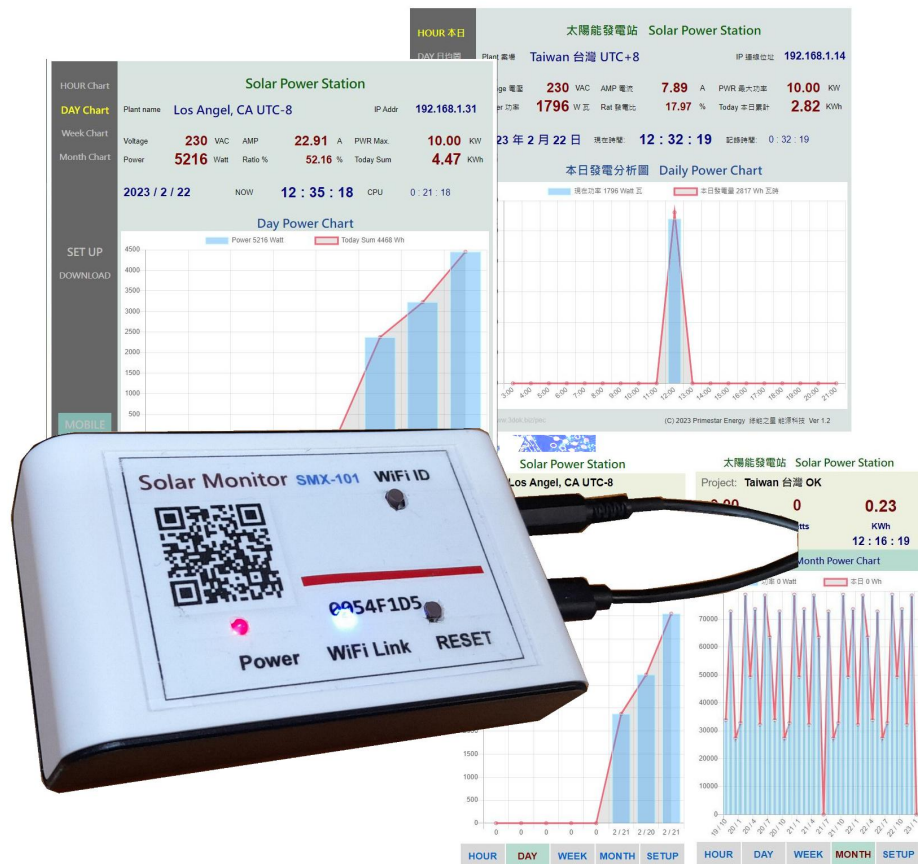


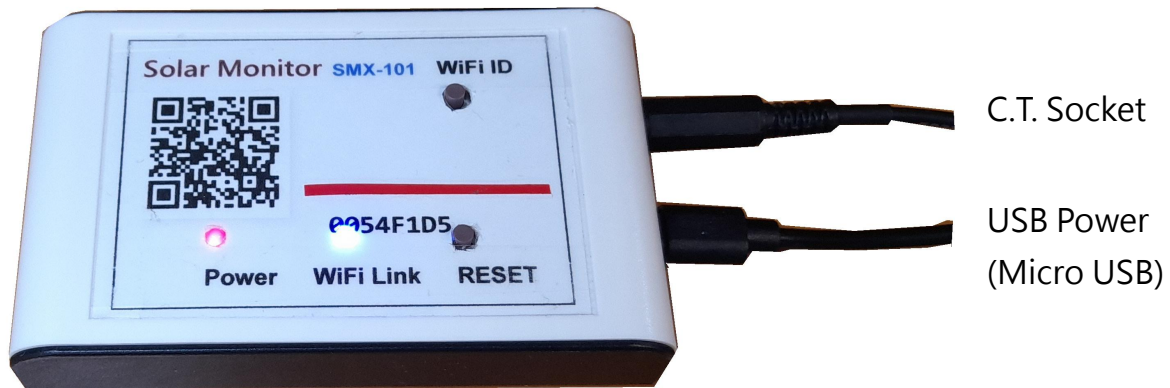
Solar Power Monitor User Manual

Model: PWX-100 / SMX-101



Updated: Nov 5, 2023

1. Introduction

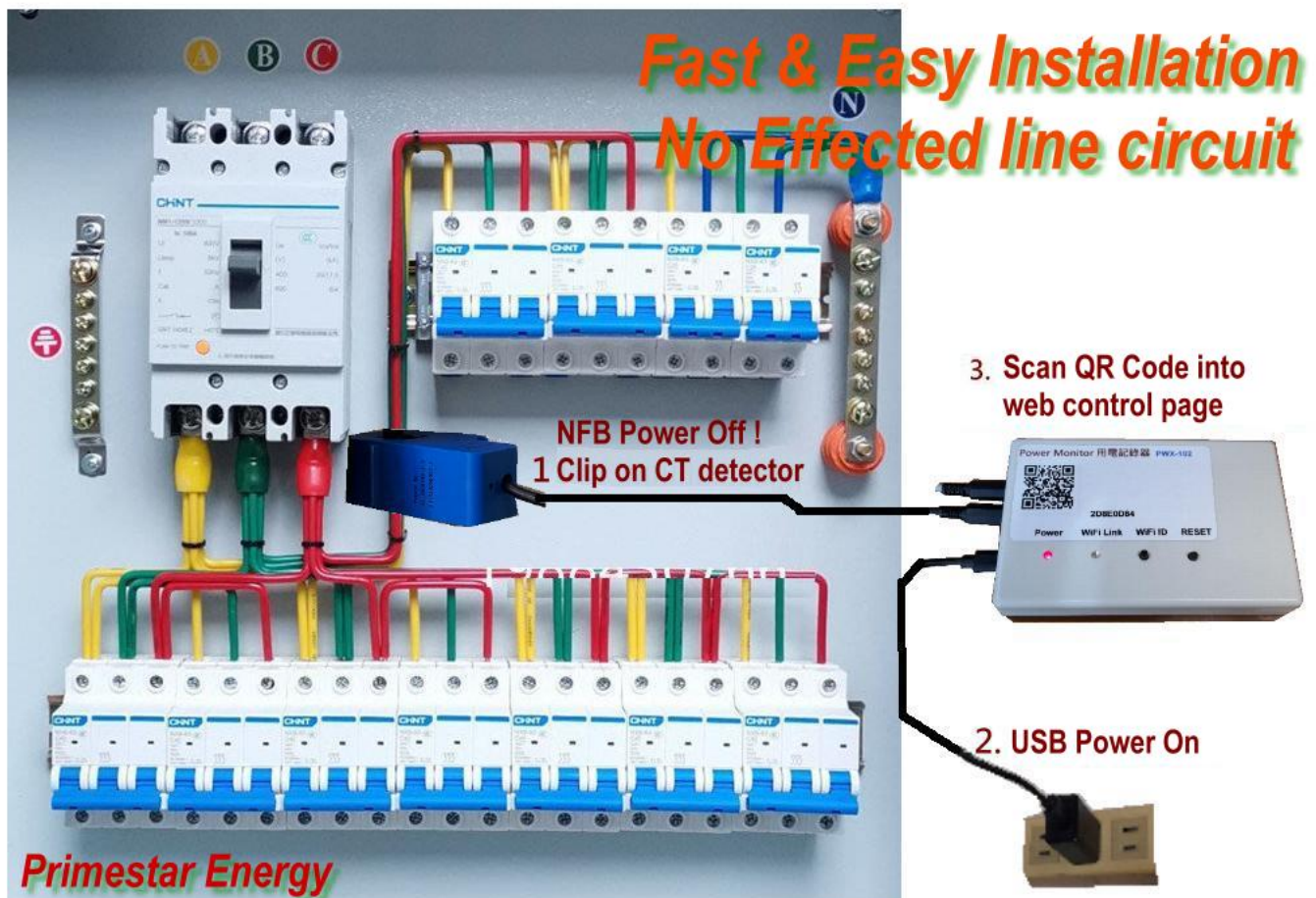


- Power LED :** Red LED for power on indicate.
- WiFi Link :** Blue WiFi Communication indicate.
- RESET :** System reset button.
- WiFi ID :** WiFi SSID reset for pressed 10 second.

- > **Turn-Off AC Line Power First :** Make sure the AC Line Power already turn-off for safety issued always.
- > **Clips the CT current clamp to AC power line :** Clip-up the CT sensor into main power wire, close up the CT clamp and plug into PMX-100 CT socket.
- > **Plug-on USB power :** When plug USB power On, the Red LED turn on, and blue WiFi LED also turn on, WiFi ready and system on work.
- > **Scan QR Code on Top :** First time install need pair up WiFi with home router for SSID & Password, requested for WiFi link.
- > **Any time scan QR Code into web control pages, after WiFi setup OK :**
When WiFi setup ready, any time use may scan the Top QR code into the web control pages for quickly WiFi link.

When WiFi setup ready, PMX-100 will get a IP address like_ 192.168.x.xx that get from your home WiFi router to accepted for web remote operations..

2. Installation



1. **NFB Power Off :** Turn off the NFB of AC power before operation, and make sure power off for safety.
2. **USB Power Adaptor :** Put USB adaptor on AC power socket, and USB power On.
3. **Install CT clamp :** Clips the blue CT current clamp on main AC power wire, close clamp and put into CT socket of PWX-100.
4. **NFB Power On :** Check again OK then turn-on NFB back AC power, The PWX-100 red power LED-on, and WiFi LED flashed, then system ready for work now !
5. **WiFi setup :** First time operation at home, it need setup the WiFi SSID and password then work completely.

3. WiFi setup

- > **Clear old WiFi data :** First time WiFi setting, press the WiFi ID button for 10 second until WiFi LED flashed, system deleted old WiFi setting and wait for setting..
- > **Log-in the PWX-100 WiFi hot spot :** Turn on the WiFi hot spot search function, search the PWX-100 hot spot entrance like this ...



- > “ESP32_XXXXX” The head ESP32 WiFi hot spot is the PWX-100 chip ID please select it for enter WiFi configuration.
- > System will show there is no internet service but it is ok, we just only use it to input your home WiFi SSID & Password only needed.

> Scan the top QR-Code machine ID or link 192.168.4.1 for WiFi configuration_



> Scan the top QR Code of machine ID, use browser to open web page for WiFi Manager proceed WiFi configuration.

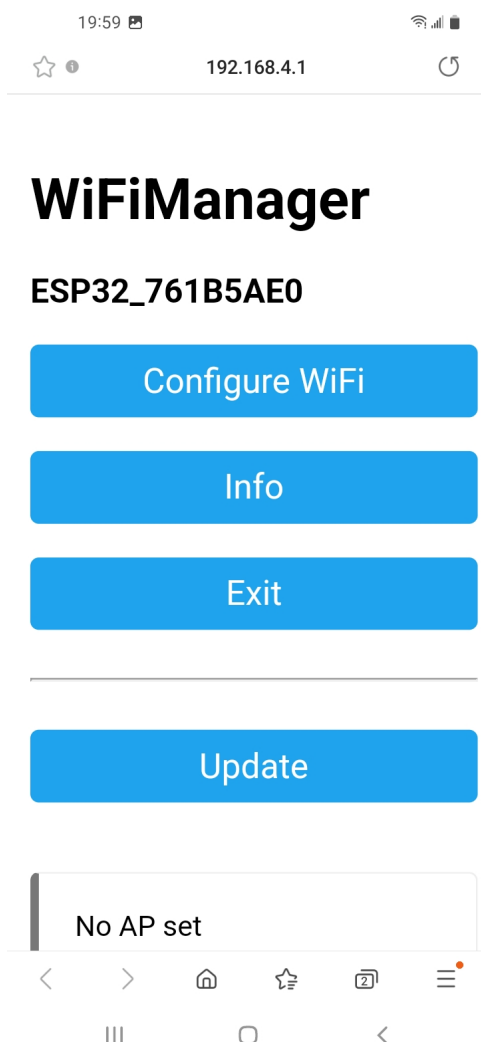
> Or directly type IP address_ 192.168.4.1 into WiFi Manager page.

> **NOTICES:**

Now procedures only available when user already find the ESP32 wifi services.

If it 's not showed, please back previously step to choice the ESP32_xxx for WiFi service again to complete web setting.

> Enter the ESP32 WiFi Manager and select <Configure WiFi > for PWX-100 for home WiFi router connect setting.



19:59



Mi_FH-2F



goforwildnetis2.4G



ASUS



CHT 20



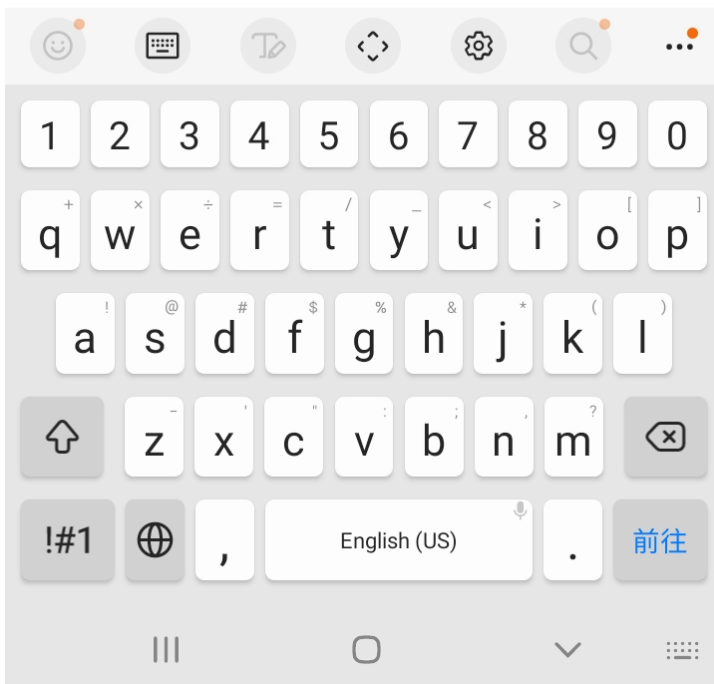
SSID

TP-LINK_60EE50

Password

.....

Show Password



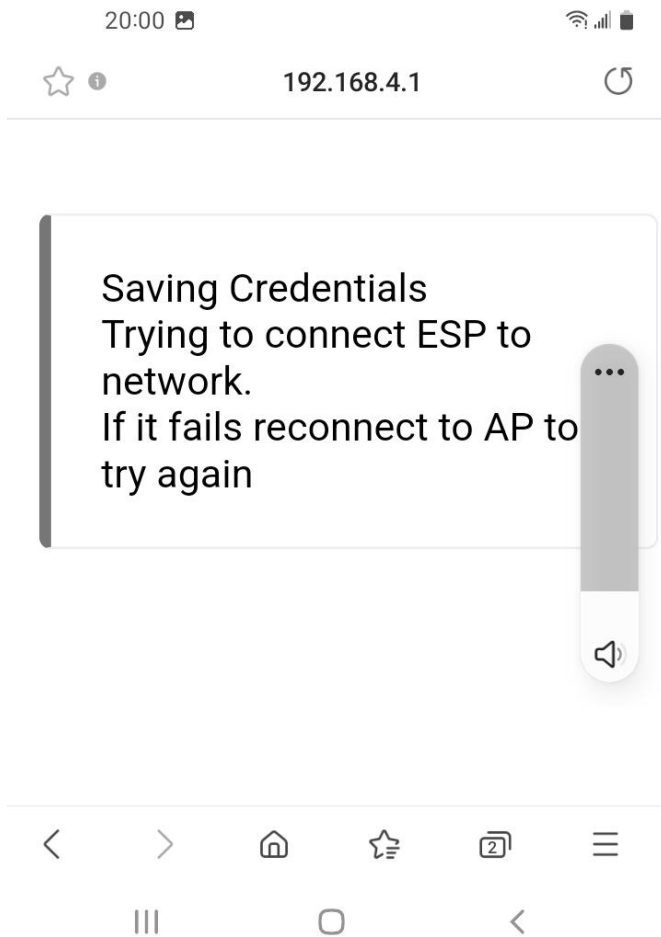
> Select your home WiFi SSID for PWX-100 to connect and enter the password then SAVED.

> **NOTICES:**

Now you selected WiFi hot spot that must be the same as later which user want to enter the PWX-100 web control functions.

If not in the same WiFi SSID router that may cause fire wall blocked and unable to link.

> The WiFi setup complete OK !



> Shown as this means WiFi Configure completed, when next time scan QR code it will go to the control page directly.

> When the WiFi configuration not success, or user and PWX-100 not in the same WiFi hot spot, it may cause blocked by fire wall and unable to reach PWX-100 web services.

> When too many WiFi hot-spot at home, be sure that user operates with PWX-100 in the same WiFi SSID router to make sure the web link allowed all the time.

> Please repeat the upper procedure to complete the WiFi SSID & Password setting.

> Again scan top QR Code for into PWX-100's web function pages.

> When WiFi setting complete, after scan QR code it will show the connected IP address which get from home WiFi router, and into web page automatically in user's web browser.

> OK! Next to web function pages!





> WiFi Setup completed !

Congratulations, when you success enter the web control page of PWX-100, that means system had already work normally now.

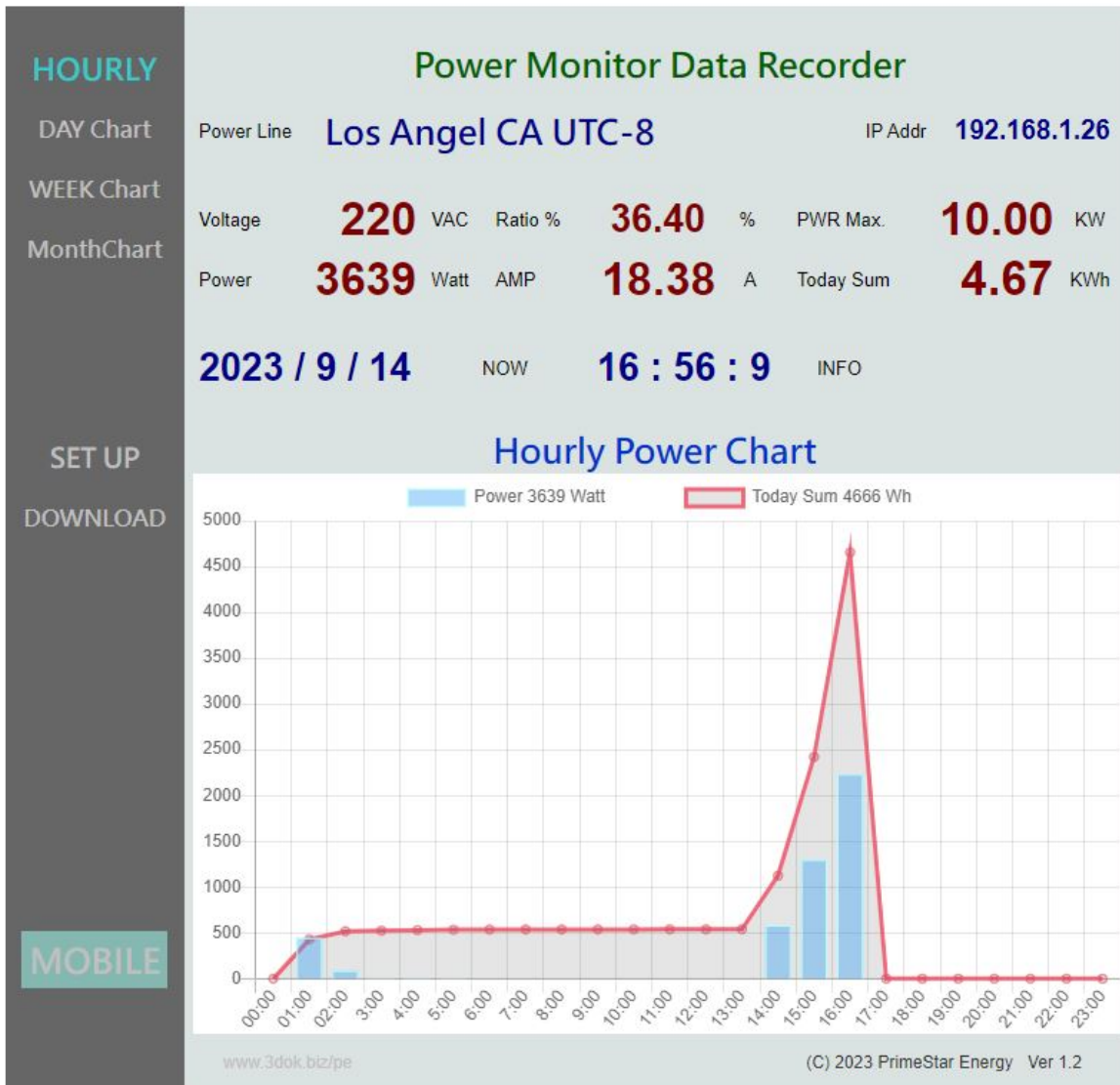
> Any time user just scan the QR code then into the web page directly like this.

Or user may save the web IP address which shows on the page_ 192.168.x.x as short-cut, then next time can into web page quickly.

> The IP address like_ 192.168.1.30 is the web address which get from users home WiFi router, so you may save the address as short-cut for directly open this address into the PWX-100.

> WiFi Configuration completed OK !

4. Functions



> HOME : [Hour Power Chart](#) Display today's 00:00 – 23:00 hourly power chart,

Left side for function pages:

- HOURLY** Today's / Hourly chart
- DAY** Goto Daily power chart
- WEEK** Goto Weekly chart
- Month** Goto Monthly chart

SETUP

User's information setting.

DOWNLOAD

Data upload, download manager.

MOBILE

For cell phone, Mobile pages.

Upper side for Real-time data :

Power Line

User's solar project name.

IP Address

192.168.x.x

Is now WiFi link IP address.

Voltage

Is the solar system's VAC value, from user's setup input.

AMP

Is the now current AC ampere value.

PWR Max.

Is the maximum solar power capacity, from user's setup input.

Power

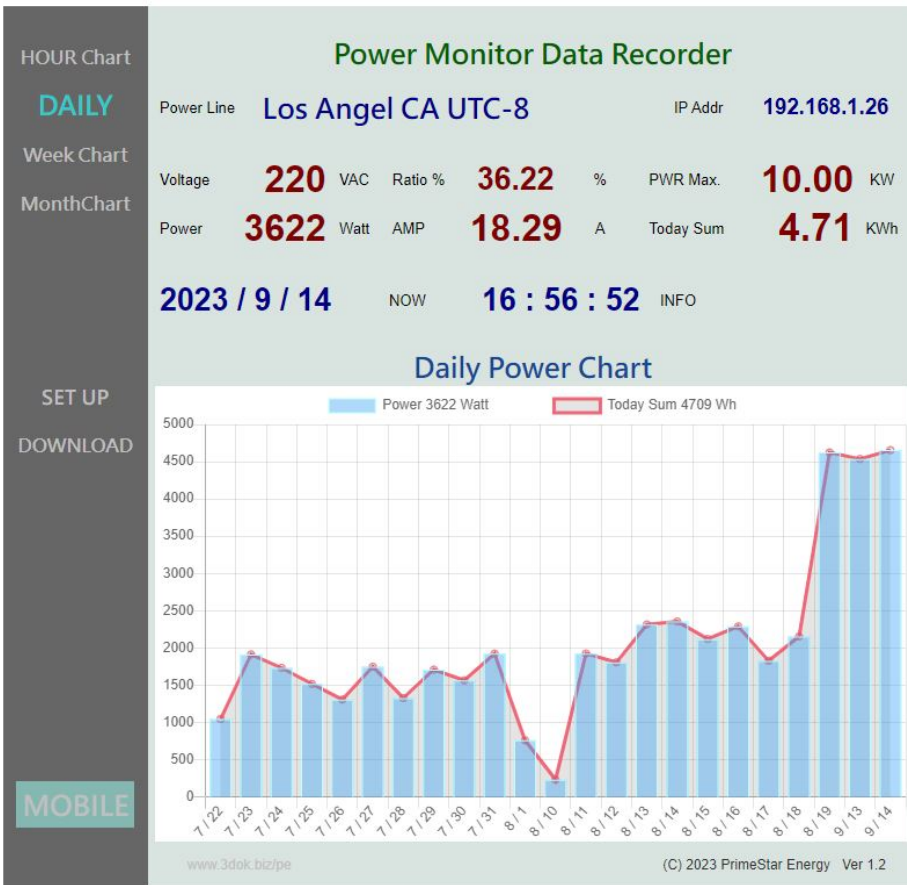
Is now measuring AC power Watts value.

Ratio%

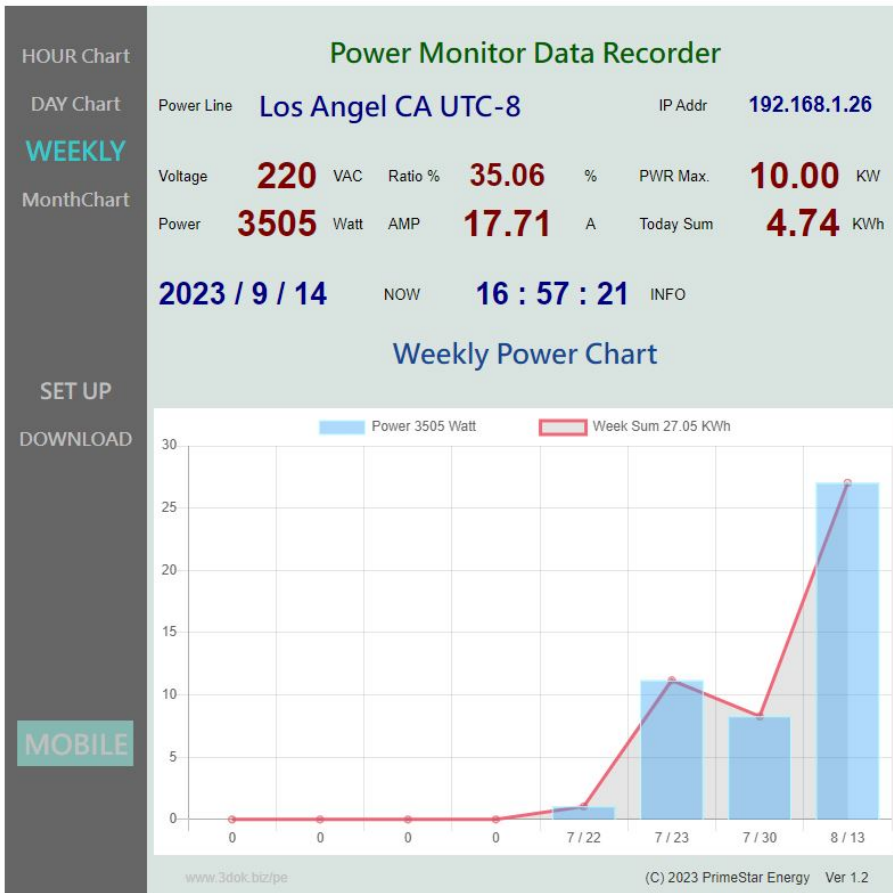
Is now power / maximum ration% value.

Today's Sum

Today's power summary in KWh.



> Daily / Weekly / Monthly Solar Power Charts.



> **Energy Calculator :** **Calculate** Displays power's statistics of duration days.

Set the duration date:

From Enter Start date Ex: 2023.1.1 Enter "230101" in 6-Digits,

To Enter End date Ex: 2023.10.15 Enter "231015".

For always last end day, Enter "999999" of 6-Digits.

@ Unit For unit price of per kWh price, then press -SET OK-

And start calculate result of Duration Energy kWh,

Average kWh / day, and total accounts.

Hour Chart

DAY Chart

WEEK Chart

MonthChart

SET UP

DOWNLOAD

MOBILE

Power Monitor Data Recorder

Power Line **Los Angel CA UTC-8** IP Addr **192.168.1.26**

Voltage **220** VAC AMP **17.32** A PWR Max. **10.00** KW

Power **3430** Watt Ratio % **34.30** % Today Sum **4.94** KWh

2023 / 9 / 14 NOW **17 : 0 : 56** INFO

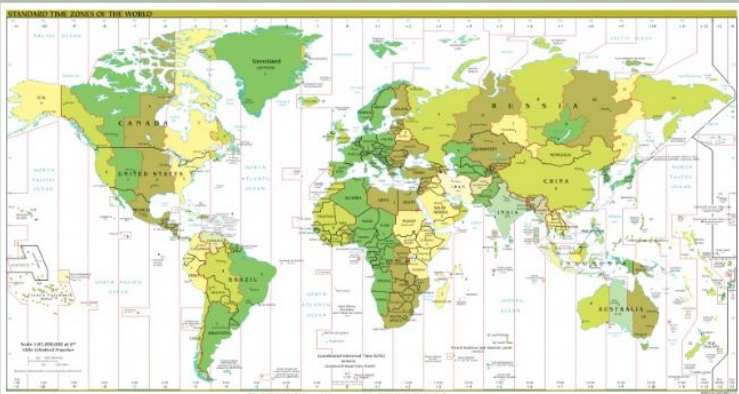
Function Setup

Plant Name

Voltage VAC

Capacity Watts

Time Zone SET



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> **User Setup Page :** To Modify, Update user's information.

Power Line Input the User's project name.

Voltage Input the AC Power line Voltage, Default is "220".

Capacity Input the solar maximum capacity in watts. Default is "10000".

Time Zone Input user's Time Zone for auto time correction.

> **SET :** Setup OK and Save it.

> **Charts Upload / Downloads :** Hourly / Daily / Week / Month charts file manager.

Select file for Upload : From user computer files upload to PWX-100 / SMX-101.

Solar Data Records Update : Update all files to newest before download.

Hourly Chart < PowerHour.dat > Hourly / Today's chart [Click to Download](#)

Daily Chart < PowerDay.dat > Daily chart [Click to Download](#)

Weekly Chart < PowerWeek.dat > Weekly chart [Click to Download](#)

Monthly Chart < PowerMonth.dat > Monthly chart [Click to Download](#)

Delete All Records, Reset ! : Deleted all data & files, return to original clean states.

Power Monitor Recorder

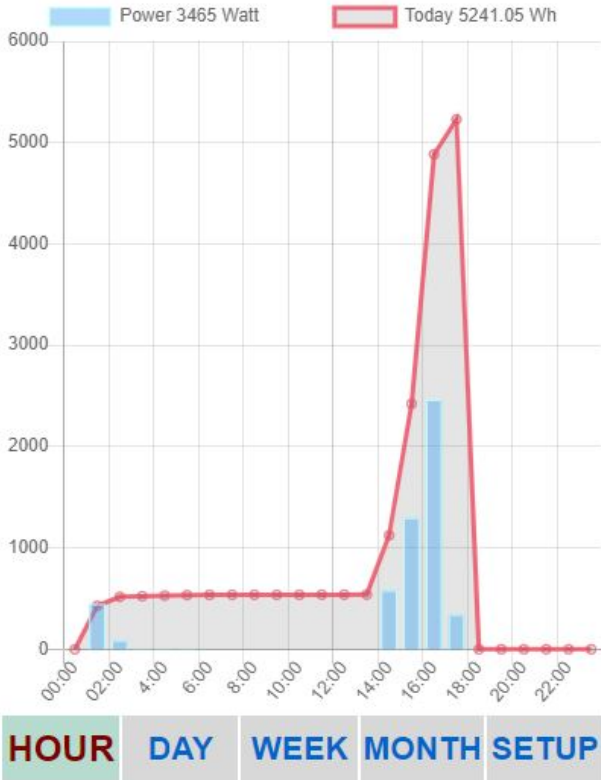
Project: **Los Angel CA UTC-8**

17.50 **3465** **5.24**

Amp Watts KWh

2023 / 9 / 14 17 : 6 : 11

Hourly Power Chart



Power Monitor Recorder

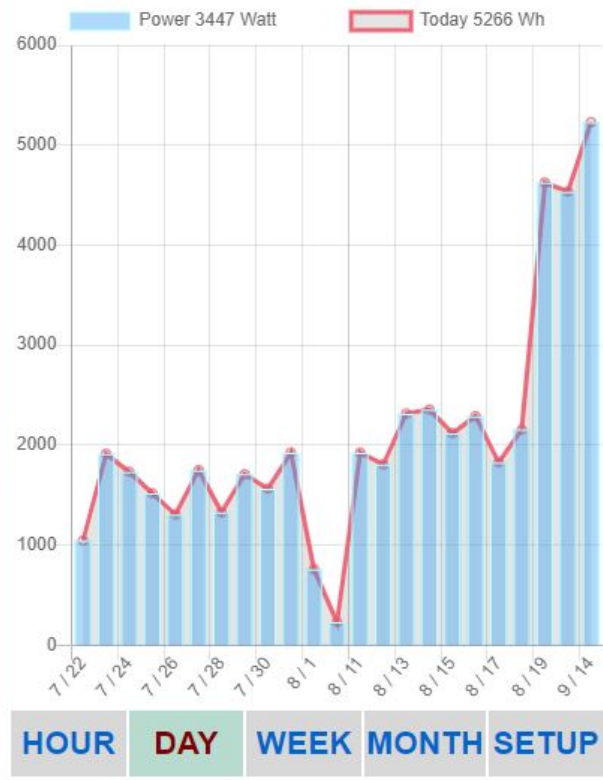
Project: **Los Angel CA UTC-8**

17.41 **3447** **5.27**

Amp Watts KWh

2023 / 9 / 14 17 : 6 : 37

Daily Power Chart



> [Mobile / Cell phone pages](#) : Mobile style Hourly / Daily / Weekly /Monthly Charts for real-time data monitors.

Solar Power Station

Project: **Los Angel, CA UTC-8**

0.00

0

2.83

Amp

Watts

KWh

2023 / 2 / 22

21 : 58 : 21

Function Setup

Project

Time Zone

Upload Upload record charts to Solar. [Hint](#)

Download Download record charts. [Hint](#)
< SolarDay.dat >
< SolarWeek.dat >
< SolarMonth.dat >

RESET Reset clear all datas ! [Hint](#)

Download **Goto DOWNLOAD Page**

[HOUR](#)

[DAY](#)

[WEEK](#)

[MONTH](#)

[HOME](#)

> **MOBILE user setup page** : To update, modify the user's information and saved.

5. Specifications

- Model :** Solar Power Monitor PWX-100 / SMX-100
- Measurement :** Single channel, Open loop C.T. Current Clamp x 1
- Range :** AC 100 – 500V / 1 -50 Amp / 100 – 10,000 Watt
- Working Voltage :** USB 5V / 2.5W
- Dimension :** L=110 x W=70 x H=30 cm
- Weight :** 350 gm

Solar Power Monitor SMX-101 Easy Install / WiFi Web Control



Primestar Energy

<https://3dok.biz/pe/>

Power Control PWX-103 PWX-104 Monitor Recorder

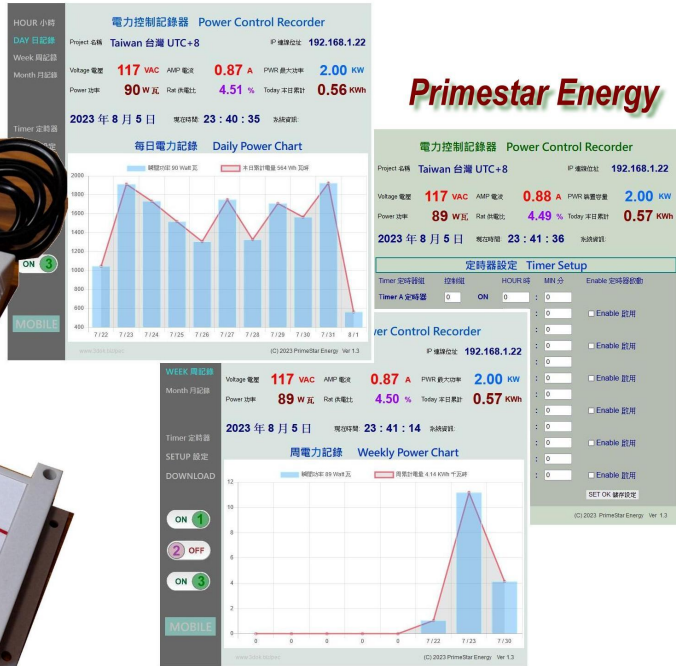
Web Page Control, No need install APP

WiFi Power Remote Control

PWX-104 PNP Plug & Play



PWX-103 Wire Connect



Primestar Energy

Hour / Day / Week / Month Power Graphic Charts

PWX Power Monitor Control Recorder



PWX-102 AC110V / 220V Power Monitor Data Recorder

PWX-105 AC220V 50KW Three-Phase AC Power Monitor Data Recorder



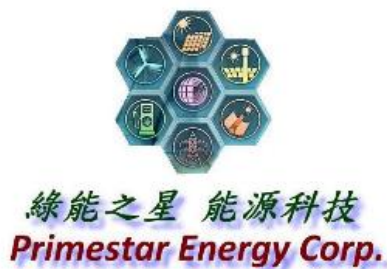
PWX-103 AC100-250V Home Monitor Control Recorder

Primestar Energy

On-Line Shop_ <https://3dok.biz/pe/shop/>



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