

DTU-W100 Quick installation instructions (V2.3)

1. Preparation

- 1) Device:DTU(1 piece), Power adapter(1 piece), Router(1 piece)
- 2) Provide power:Wall Socket (or cable socket)

2. DTU Installation Position

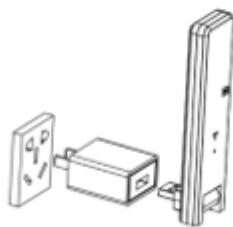


(Figure 1)

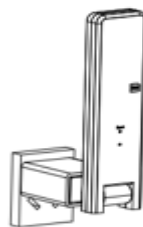
- ✓ Installed on the indoor top floor (the nearest layer to the module, and the distance to microinverter shall be less than 5 meters).
- ✓ Installed on the south wall (directly below the middle position of module square).
- ✓ One meter above the ground,0.8 meters away from the corner.
- ✓ Close enough to the router.

3.Install DTU

- 1) Connect the DTU to the power adapter and plug it into the wall socket (the wall socket should be more than 1 meter above the ground). For example, figure 2 and figure 3.



(Figure 2)



(Figure 3)

- 2) Connect the DTU to the power adapter and plug it into the cable socket, and put the socket on the table (when the table is placed, the table surface should be more than 1 meter above the ground).

Note: table should not be metal or concrete (to prevent impact on 2.4G signal).

- 3) DTU should be placed vertically up to 90 degrees.

4. Configuration WiFi

- 1) Connect to WIFI with the name of USR-C210(DTUW-numbers) via computer or mobile phone.



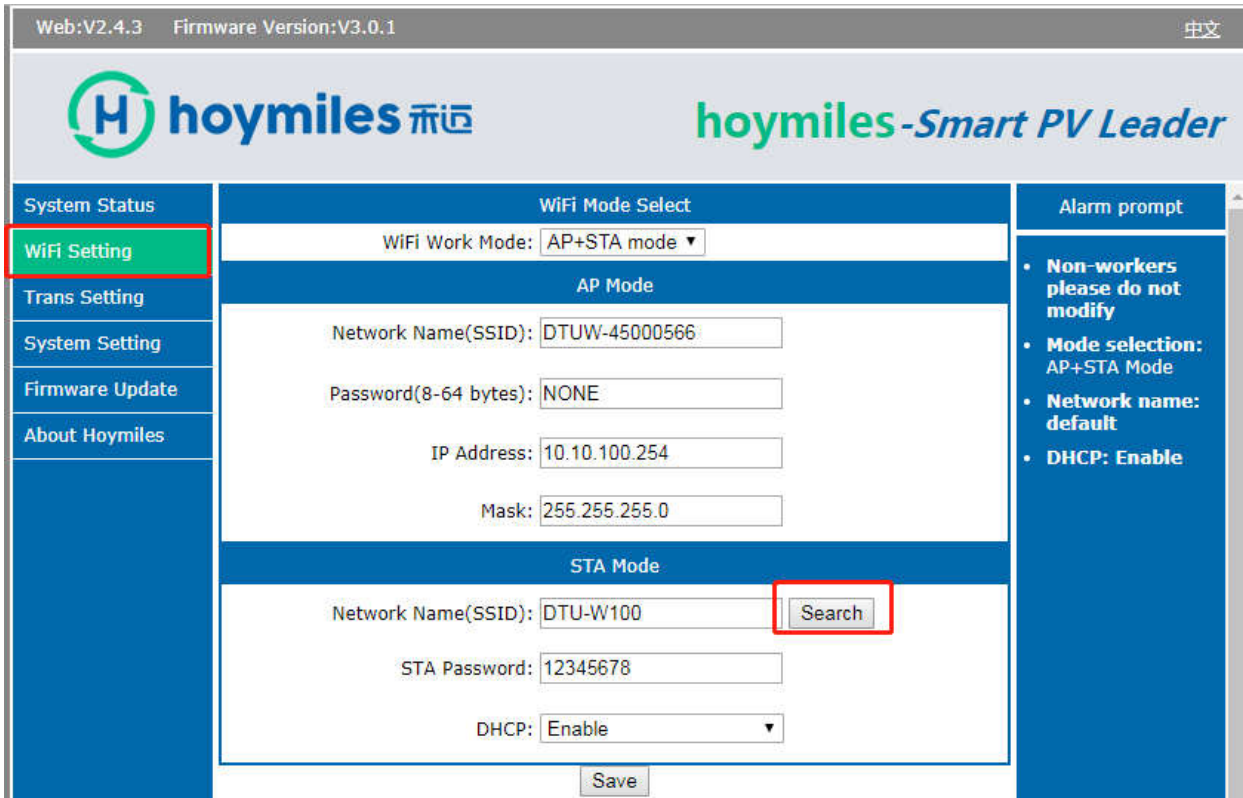
(Figure 1)

- 2) Open the browser, enter **10.10.100.254**, the default username and password are admin.



(Figure 2)

3) Click WiFi Setting ,then chose the search button on the right



Web:V2.4.3 Firmware Version:V3.0.1 中文

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System Status

WiFi Setting

Trans Setting

System Setting

Firmware Update

About Hoymiles

WiFi Mode Select

WiFi Work Mode: AP+STA mode

AP Mode

Network Name(SSID): DTUW-45000566

Password(8-64 bytes): NONE

IP Address: 10.10.100.254

Mask: 255.255.255.0

STA Mode

Network Name(SSID): DTU-W100 **Search**

STA Password: 12345678

DHCP: Enable

Save

Alarm prompt

- Non-workers please do not modify
- Mode selection: AP+STA Mode
- Network name: default
- DHCP: Enable

(Figure 3)

4) Select the WiFi that DTU needs to connect .

Note: the WiFi must be person WiFi otherwise enterprise WiFi, if this is a enterprise WiFi the DTU will never allow the user login. Then have to click the reset button on the shell .



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System Status

WiFi Setting

Trans Setting

System Setting

Firmware Update

About Hoymiles

Please select a SSID

Site Survey

SSID	BSSID	RSSI	Channel
HM-OFFICE-5	08:9B:4B:94:D2:0D	-40	7
HM-OFFICE-6	0E:9B:4B:94:D2:0D	-40	7
TP-LINK_C651	94:D9:B3:5F:C6:51	-48	6
HM-OFFICE-1	08:9B:4B:94:D2:15	-54	1
HM-OFFICE-2	0E:9B:4B:94:D2:15	-56	1
HP-Print-fe APP HP M226dw	28:56:5A:20:42:FE	-58	6
HM_NewE	0A:25:93:DA:8A:60	-58	9
HM_Engineering	88:25:93:DA:8A:60	-58	9
ESSOM	7C:76:68:B1:D1:F3	-65	1
ä½ çœ ä° æ ~ ç š , ä ° ç † Š a ° † ä —	1A:E3:47:F2:75:27	-65	1
wanghongze	D8:B0:4C:DF:73:28	-69	6
HM_TEST1	BC:14:EF:CF:76:30	-73	1
DTUW-00000088	D8:B0:4C:DF:75:91	-83	13
CN-TEST-4	D8:B0:4C:CF:D8:A3	-83	9

OK Refresh


Alarm prompt

- Non-workers please do not modify
- Mode selection: AP+STA Mode
- Network name: default
- DHCP: Enable

(Figure 4)

5) Enter the password and save.

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System Status	WiFi Mode Select	Alarm prompt
WiFi Setting	WiFi Work Mode: AP+STA mode ▼	<ul style="list-style-type: none"> • Non-workers please do not modify • Mode selection: AP+STA Mode • Network name: default • DHCP: Enable
Trans Setting	AP Mode	
System Setting	Network Name(SSID): DTUW-45000566	
Firmware Update	Password(8-64 bytes): NONE	
About Hoymiles	IP Address: 10.10.100.254	
	Mask: 255.255.255.0	
	STA Mode	
	Network Name(SSID): wanghongze Search	
	STA Password: 12345678	
	DHCP: Enable ▼	
	Save	

(Figure 5)

6) Then choose Restart.

Web:V2.4.3 Firmware Version:V3.0.1 中文


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hoymiles-Smart PV Leader

System Status	Save Success	help
WiFi Setting	<p>Save Success!</p> <p>Configurations will take effect after restart.</p> <p>After restart, you will need to re-login the configuration interface for other settings, so it is recommended to restart after completing all settings.</p> <p>Please click [Restart] to restart now, or click [Back] to continue setting.</p> <p>You can restart after all configuration.</p>	<ul style="list-style-type: none"> • Restart: Parameters take effect after restart
Trans Setting		
System Setting		
Firmware Update		
About Hoymiles		
	Restart	

(Figure 6)

7) Reboot Success



(Figure 7)

- 8) Power OFF the DTU for 10s, and then power ON, Wait about 2 minutes, DTU light shows (green and blue) or (blue), it means that DTU is connected to the wireless network.



(Figure 8)











Note: (1) non-professionals do not modify other parameters.

(2) Don't click the "Reset" button on the DTU shell, only when the DTU wifi the customer choose the enterprise wifi.

5. Complete Installation Map

- 1) Check if the indicator light is normal.
- 2) Confirm whether the connection is successful.
- 3) Please improve the installation map.
- 4) Remove the DTU serial number and attach it to the blank field of the DTU serial number of the installation map.

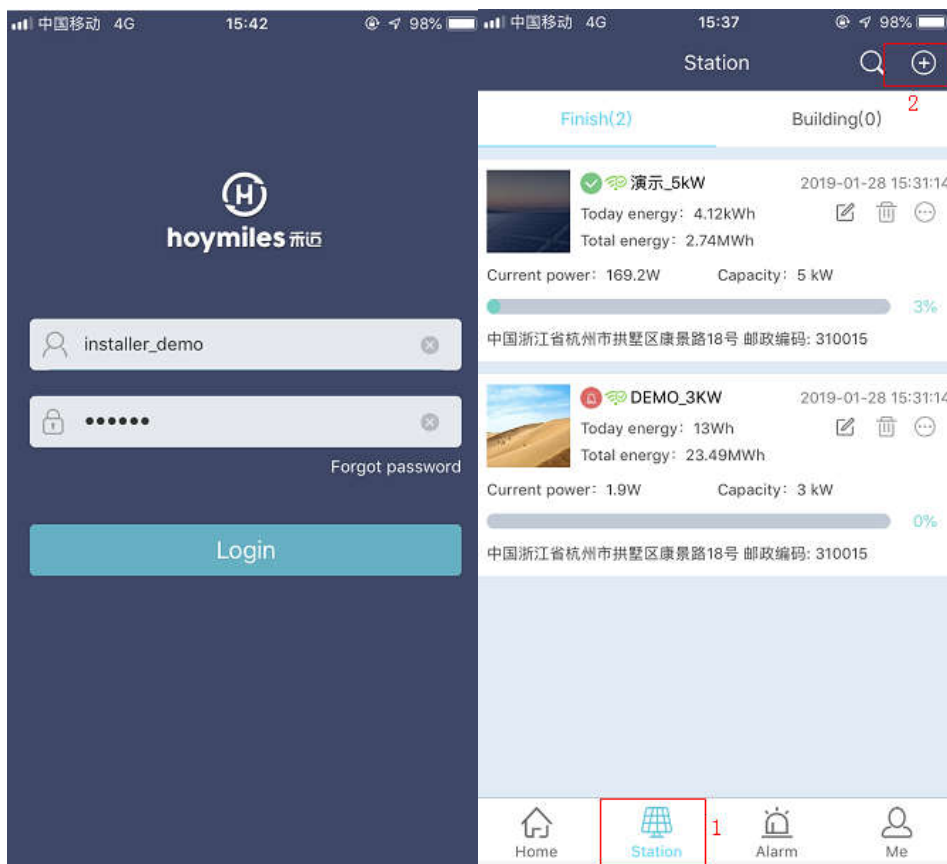
Installation Map

		DTU-ID		 10F240402327				Customer name			Ricardo Rojero				Capacity		3KW			
		Repeater ID						Power station name			DEMO-3KW				Address					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A	 104042300801	 104042300803	 104042300808	 104042300811																
B	 104042300801	 104042300803	 104042300808	 104042300811																

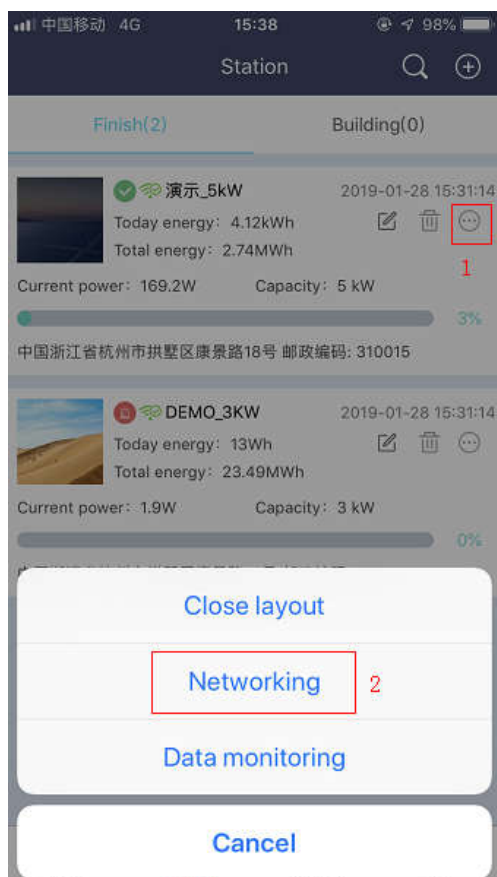
(Figure 8)

6. Create new station

1) The installer login account and create the power station for the end customer.



2) Please click networking button after the power station is created.



- 3) When the station shows online and all the mi-ids are found, the DTU light turns **green**.



7. LED indicator working status description

LED DTU Status		RED	BLUE	GREEN	RED+GREEN+BLUE
1	Power				Each color flashes 1second
2	Update Program				Each color flashes 2 times in 1s
3	Normal			Lighting	
4	The search ID is incomplete			1second twice	
5	No ID		Flashing 1second		
6	DTU disconnect WiFi	Flashing 1second			
7	DTU disconnect with server	1 second twice			
8	Received data From server		1 second twice		

Note: Common four indicator status

- When the DTU starts, The indicator light is red + blue + green alternately flashing.
- Connect network : a. Connected to wifi, the blue lighting ,then you can build the power station; b. Can't connect to wifi, The indicator light is red + blue alternately flashing, then you need to connect to wifi again.
- When the station is completed, the green lighting.

8. Datasheet

Model	DTU-W100
Communication to Microinverter	
Communication method	2.4G RF
Communication frequency	2400MHz to 2483.5MHz
Number of channels	5
Maximum distance(free space)	200M
Maximum number of inverters connected	100 panels
Communication to Cloud	
WIFI communication standard	802.11b/g/n
Data upload time	15 minutes
Power Supply (Adapter)	
Power supply	Wireless adapter with USB port
Adapter input voltage / frequency	100 to 240 V AC / 50 or 60Hz
Adapter output voltage / current	5V / 2A
Power consumption	1.0W (typical), 5W(maximum)
Mechanical Data	
Ambient temperature range (°C)	-20°C to 55°C
Size (W×H×D mm)	143mm×33mm×12.5mm
Weight(kg)	0.1
A fixed way	Direct power supply
Indicator light	LED
Others	
Standard	IEC60950 IEC61000-6-2 FCC Part15 Class B / Class C
Standard warranty	2 years