

**Open Energy For All** 

# **Technical Note**

## Guide to Adjust Active Power on the S-Miles Cloud Platform

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hoymiles.com

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#### **0** Introduction

This document introduces how to adjust active power on the S-Miles Cloud platform.

All instructions in this document are valid for:

- Hoymiles DTU:
- DTU-Pro / Dtu-Pro-s
- DTU-W100
- DTU-WLite / DTU-WLite-S
- DTU-Lite-S / DTU-Lite-S SE
- Hoymiles Microinverter:
- HM Series Microinverters
- HMS Series Microinverters
- HMT Series Microinverters

#### 1 Terms

- Active power: Active power is the actual power runs by microinverter to perform real work. It also refers
  to the useful power which can be converted into other forms of energy like heat energy, light energy, etc.
  A grid's active power represents the portion of the energy that can be used to perform useful work. It is
  denoted by P and measured in W.
- Active Power Percentage Derating: Refers to the percentage of the maximum power output of microinverter. It varies depending on the specific inverter and the prevailing conditions. And its adjustment range is 0 to 100.
- **Distributor/Installer Account:** This type of account is for Hoymiles installers and distributors professionals who sell and install Hoymiles products. Distributor/Installer accounts have access to additional tools for managing multiple installations.
- End-User Account: This type of account is for individuals or businesses who have purchased Hoymiles products and have them installed by Hoymiles professional installers. End-User accounts allow users to track performance and troubleshoot issues.
- **DIY User Account**: This type of account is for individuals who have purchased Hoymiles products and installed them themselves without the help of Hoymiles professional installers. DIY User accounts to track performance and partially troubleshoot issues.

#### 2 Adjusting the Active Power on Webpage

There are three types of accounts for Hoymiles products: Distributor/Installer, End-User, and DIY User. The process of adjusting power parameters may vary depending on your account type. Hence, it is crucial to confirm your account type before proceeding with the given instructions.

#### 2.1 For Distributor/ Installer Account

#### Step 1. Issuing command.

1. Log into S-Miles Cloud using your credentials.

2. Select the **Plant** tab. Then search for the plant where you want to change the grid profile. Click the **O&M** icon to move to the **Plant O&M** pop-up window .

S-MILES CLOUD	읍 Home	🖽 Plant	ж оям	🗷 Org &	User			م	0	٥	• 😣	
습 / Plant / List / Plant	List											
Plant List My F	avorites Plant Map				2							
Plant Status	Plant Name \vee 文材	当测试		Q Ad	ver eel Filter S	7					🛱 Create	Plant
Plant ID	Plant Name			Status	Capacity	Organization		Power Ratio	Creation	Time	Action	8
459620	文档测试使用			-	5kW	余杭区			3	08-16	R 🤌	\$

3. On the **Plant O&M** pop-up window, click on the **Power Adjustment** button. This will navigate to the **Power Adjustment Dialogue**.

Plant O&M			×
Plant Name:		Capacity: 1 kW	
Organization :		Owner:	
Plant Type:	Residential Plant (Single Array)	Installation Time: 2023-01-09 09:28:03 (UTC+08)	
Address :			
Current Power:	No data.		
Plant O&M:	🔯 Settings	A Transfer Plant	
	品 Networking	Power Adjustment	
	Delete		

#### 4. From the **Adjustment Method** drop-down, select the **Active Power** option.

Power Adjustment		×
Plant Name :	文档测试使用	
* Adjustment Method :	Active Power ^	0
	Active Power	
* Active Power Percentage Derating (%):	Power Factor	
	Reactive Power	

5. After that, enter your desired value into the blank, then click on the **Issue Command** button.

Power Adjustment	X
Plant Name :	文档测试使用
* Adjustment Method :	Active Power V
* Active Power Percentage Derating (%):	2 ~ 100% Only supported on DTU-Pro, DTU-Pro-S
	2
	Cancel Issue Command

#### Step 2. Confirming the command.

1. After issuing the command, wait and see the progress of the command as it's executed.

Device Command	
93%	
Command is being issued, please wait a moment	

- 2. Once the command is executed, you'll see a status message:
- Command executed

This page will display"Command Executed" if successful.

Device Command						
	Command execu	ted				
SN	Туре	Status				
116183136792	Micro	Executed				
116183136554	Micro	Executed				
116183138131	Micro	Executed				

• Failed to issue the command

This page will display "Failed to issue the command" if the micro-inverter couldn't execute the command.

mmand				
			$\times$	
			the command	
SN	Туре			
<b>SN</b> 116183136792	<b>Type</b> Micro	Ст	/ Again	
		C Tr	/ Again Error Code	

Please note that the error code of "communication timeout" indicate that the microinverter couldn't execute the command due to unstable communication with the DTU. To resolve it, you can resend the command or check the microinverter's signal strength using S-Miles mobile application.

#### 2.2 For End Users Account

#### Important:

Active power adjustment function is only available for End User Accounts used in specific countries. The countries where this function is available include

- Germany (DE)
- France (FR)
- Poland (PL)
- Netherlands (NL)
- Italy (IT)
- Austria (AT)
- Spain (ES)
- Portugal (PT)
- Switzerland (CH).

#### Step 1. Issuing command.

1. Log into S-Miles Cloud using your credentials.

#### 2. Select the **Plant** tab. Click the **Plant Name** to move to the **Plant Dashboard** window.

S-MILES CLOUD	Plant. 道 Alarm Query 图 Report Query			@ \$ @ <u>8</u>
Power Generation	Plant Status		All Devices	
Energy This Month  48.01 kWn  50.06	5 kWh	10 Normat: 5 Unfinise: 3 Unfinished: 2 Aarro 0	33	- DTU: 8
Total Reduction Carbon I 149 kg 8 Trees	Emission Offset	Inactive 0		inverter: 2
Enter plant name	٩			Card List
•	*	*	<u>à</u>	
Capacity: 23kW Energy Today: 0Wh Data Update: 2023-04-20 13:58:30 (UTC+08)	Capacity: 50kW Energy Eday: 0Wh Data Catale: 2023-04-20 10:42:53 (UTC+00	Capacity: 120kW Energy Today: 11.81kWP Data Update: 2023-04-2	E	iapacity: 120kW inergy Today: 0Wh Jata Update: 2023-02-13 14:09:44 (UTC+08)
Power Ratio	Powerna <mark>tio</mark>	Power Ratio		Power Ratio

3. Find the **Plant Status** dialogue, click the **O&M** icon. This will navigate to the **Power Adjustment** 

S-MILES CLOUD 🖽 Plant 8 6 D ard 🔏 Layout B De 1 Plant Overview Energy Today: 0 wh Energy This Month: 18.18 km o: 0.0 % 0W 23 RV Energy This Year: 18.18 km 18.18 kW Ufetime Energy: < 2023-04-20 23 KW Capacity: Country

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Dialogue.

4. On the **Plant O&M** pop-up window, click on the **Power Adjustment** button. This will navigate to the **Power Adjustment** Dialogue.

Plant O&M		
Plant Name :	Capacity:	23 kW
Organization :	Owner:	panjiehui
Plant Type :	Installation Time:	
Address :		
Current Power:	<sup>®</sup> No data.	
Plant O&M :	🖱 Power Adjustment	

5. After that, enter your desired value into the blank, then click on the **Issue Command** button.

Power Adjustment		Х
Plant Name :	文档测试使用	
* Adjustment Method :	Active Power V	
* Active Power Percentage Derating (%):		
	Uniy supported on DTU-Pro, DTU-Pro-s	
	2	
	Cancel Issue Comma	nd

#### Step 2. Confirming the command.

1. After issuing the command, wait and see the progress of the command as it's executed.

Device Command
93%
Command is being issued, please wait a moment

#### 2. Once the command is executed, you'll see a status message:

Command executed

This page will display"Command Executed" if successful.

Device Command		
	Command executed	
SN	Туре	Status
116183136792	Micro	Executed
116183136554	Micro	Executed
116183138131	Micro	Executed

#### • Failed to issue the command

This page will display "Failed to issue the command" if the micro-inverter couldn't execute the command.

Device Co	ommand				
			$\mathcal{C}$		
				the command	
	SN	Туре	C Tr	r Again	
	116183136792	Micro	Failed	Communication timeout.	
	116183136554	Micro	Executed		

Please note that the error code of "communication timeout" indicate that the microinverter couldn't execute the command due to unstable communication with the DTU. To resolve it, you can resend the command or check the microinverter's signal strength using S-Miles mobile application.

#### 2.3 For DIY User Account

### Important:

Only customers with addresses in the following countries are allowed to register as DIY users and use active power adjustment function: Germany (DE), France (FR), Poland (PL), Netherlands (NL), Italy (IT), Austria (AT), Spain (ES), Portugal (PT), and Switzerland (CH).

#### Step 1. Issuing command.

1. Log into S-Miles Cloud using your credentials.

2. Select the Plant tab. Click the O&M icon to move to the Plant O&M pop-up window .

S-MILES CLOUD	🕮 Plant 🔀 O&M				@ 4 @ <u>8</u>
Power Generation	1 Plant	Status		All Devices	
0 vm 0 v	time Energy Mh bon Emission Offset Pees	5 Total	Normat: 3 Offline: 2 Alarre: 0 Unfinished: 0 Inactive: 0	17 Total	<ul> <li>Micro: 10</li> <li>DTU: 6</li> <li>Inverter: 1</li> </ul>
		2			
Capacity: 6kW Energy Today: 0Wh Data Update: 2023-04-06 13:37:30 (UTC-07	Capacity: 3kW Energy Today: 0Wh Data Update: -		Capacity: 3kW Energy Today: 0Wh Data Update: 2023-04-05 19:52:30 (UTC	Capacity: 3kW Energy Today: -09) Data Update: -	0Wh

3. On the **Plant O&M** pop-up window, click on the **Power Adjustment** button. This will navigate to the **Power Adjustment Dialogue**.

Plant O&M		
Plant Name :		Capacity:
Organization :		Owner: -
Plant Type :	Commercial Plant (Single Array)	Installation Time:
Address :		
Current Power:	• No data.	
Plant O&M :	🕸 Settings	品 Networking
	Power Adjustment	Delete

4. Enter your desired value into the **Active Power Percentage Derating blank**, then click on the **Issue Command** button.

ower Adjustment	
Plant Name:	
* Adjustment Method :	Active Power $\lor$ ⑦
* Active Power Percentage Derating (%):	2 ~ 100%

#### Step 2. Confirming the command.

1. After issuing the command, wait and see the progress of the command as it's executed.

Device Command	
93%	
Command is being issued, please wait a moment	

2. Once the command is executed, you'll see a status message:

Command executed

This page will display"Command Executed" if successful.

ce Command		
	Command execut	ed
SN	Туре	Status
116183136792	Micro	Executed
116183136554	Micro	Executed
116183138131	Micro	Executed

• Failed to issue the command

This page will display "Failed to issue the command" if the micro-inverter couldn't execute the command.

ommand				
			×	
			e the command	
SN	Туре			
<b>SN</b> 116183136792	<b>Type</b> Micro	Ст	y Again	
		C Tr	y Again Error Code	

Please note that the error code of "communication timeout" indicate that the microinverter couldn't execute the command due to unstable communication with the DTU. To resolve it, you can resend the command or check the microinverter's signal strength using S-Miles mobile application.

#### **3** Adjusting the Active Power in Application

There are three types of accounts for Hoymiles products: Distributor/Installer, End-User, and DIY User. Different. The process of adjusting power parameters may vary depending on your account type. Hence, it is crucial to confirm your account type before proceeding with the given instructions.

#### 3.1 (Optional) Registering a DIY Account

## Important:

If you have an installer account, skip this section.

- 1. Open the S-Miles Installer app, and tap the **No Account** Button.
- 2. On the No Account screen, tap the Register Button. This will take you to the Register page.
- 3. Fill out the registration form with the required information. Then tap the **Register** button.

Language	< No Account	< Register		
S-MILES CLOUD	If you are our new distributor, please tell your sales and login ID, and we will create	This only applies to homeowners who "do it yourself" to create an S-Miles Cloud account.		
	account for you. contact us - service@hoymiles.com	Email Enter		
👌 almandrigan 🗸 🗸	If you are a "do it yourself" home owner	Verification Code Send		
<b>a</b>	please register here and make sure the c phone is connected to the DTU AP.	Login Account Enter		
Forgot Password	Register	Password Enter		
Login	If you are a user of the integrated Wi-Fi ve	Password must be between 6 and 20 chara		
No Account Demo Account	microinverter, you can directly use thi: entrance to view device information and c Make sure that your phone is connected to hotspot of the integrated Wi-Fi versior	Confirm Password Enter 🗞		
<privacy policy=""><user agreement=""> Hoymiles Power Electronics Inc.</user></privacy>	microinverter. Enter	Register		

#### 3.2 Adjusting the Active Power

#### Step 1. Establishing an Internet connection.

- 1. Open and log in to the S-Miles Installer app using your credentials. This will take you to the **Home** page.
- 2. On the Home page, tap the O&M > Network Config icon. This will take you to the WLAN page.
- 3. Follow the prompts to configure the network connection.



< Network Config	(31	Energy This Month	Lifetime Energy O Wh	< Netv	work Config	
				 DTU AP Passwor	d Setting	>
	<u>60</u>	Total Reduction	Carbon Emissio O Trees	Connec	ction Succeeded	
Wi-Fi	Тоо	ls		 LL		
۲			-	<u> </u>		- 🖀
Please select a WiFi network and enter the password.		<b>`</b>	×	DTU	Router	Server
		Alarm 2	Toolkit	 Networking Star Succeeded		
Wi-Fi Select a network from available Network list.	Г			 Networking Mod Network Quality Are you connect	de: Wi-Fi /: 90% ted to the server?	
Password Enter the password.		Ê		 Reconfigure	e Finis	h
		Network Config		 Password		51
Send to DTU			1	Passworu		

#### Step 2. Adjusting the Active Power.

- 1. On the **Plants** screen, tap the **Search** icon.
- 2. Enter the desired plant name for your search.
- 3. Tap the plant name to move to the plant homepage.



- 4. On the plant homepage, tap the **Setting** icon. This will take you to the **Plant Setting** page.
- 5. On the plant setting page, tap the **Power Adjustment** button.
- 6. Enter your desired value into the Active Power Percentage Derating blank, then tap the Save button.

