

**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

#### • 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

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.

## 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 C	CLOUD 🔒 Home	🖽 Plant	жо&м ⊑	Org &	User			a	0	۵	۲	8	
습 / Plant / List	: / Plant List												
Plant List	My Favorites Plant Maj	0			-								
Plant Status	V Plant Name V	文档测试	٩	Ad	Filter S	·					<b>€</b> 6 C	reate Plant	
Plant ID	Plant Name		5	Status	Capacity	Organization		Power Ratio	Creatio	on Time	Acti	on 📾	
459620	文档测试使用			-	5kW	余杭区			• 200	08-16	R	<i>P</i>	
									-			<b>.</b>	Ē

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:	ĝi Settings	A Transfer Plant	
	品 Networking	Power Adjustment	
	🗇 Delete		

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

Power Adjustment		X
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 commond 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 Co	ommand			
		Command execut	ed	
	SN	Туре	Status	
	116183136792	Micro	Executed	
	116183136554	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				
			$\times$	
		Failed to issue	the command	
SN	Туре	Failed to issue	the command ( Again Error Code	
<b>SN</b> 116183136792	<b>Type</b> Micro	Failed to issue	the command ( Again  Error Code Communication timeout.	
<b>SN</b> 116183136792 116183136554	Type Micro Micro	Failed to issue C Tr Status Failed Executed	t the command  Again  Fror Code  Communication timeout.	

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 🔟 Alarm Quer	n 関 Report Query			0 ¢ ® A
Power Generation	1	Plant Status		All Devices	
Energy This Month 48.01 kWh	C Lifetime Energy 150.06 kWh	10	Normal: 5 Offline: 3 Unfinished: 2	33	- Micro: 23
Total Reduction 149 kg	Carbon Emission Offset 8 Trees	Total	Alarm: 0	Total	mverter: 2
Enter plant name	٩				Card List
		-			
8	*	*	3.0	*	*
Capacity: 23kW Energy Today: 0Wh	Capacity: SOKM Energy day: (	Wh	Capacity: 120kW Energy Today: 11.81kWh	Capacity: 12010 Energy Today: 0 Data Today: 0	V Wh
Power Ratio	Power reatio	eurometer (onestat (onest00)	Power Ratio	Power Ratio	eurone la rennere (a la sul su)

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

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

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:	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 (%):	2 ~ 100%
	2
	Cancel Issue Command

#### Step 2. Confirming the command.

1. After issuing the command, wait and see the progress of commond 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				
			$\mathcal{C}$	$\sim$	
			Failed to issue	the command	
	SN	Туре	C Tr	y Again Error Code	
	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 .



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: <ul> <li>No data.</li> </ul>		
Plant O&M: 🔯 Settings	器 Networking	
Power Adjustment	D Delete h	ne <b>Issu</b>
Power Adjustment		
Plant Name	e:	
* Adjustment Method	d: Active Power $\lor$ ⑦	
* Active Power Percentage Derating (%)	<b>):</b> 2~100%	

#### Step 2. Confirming the command.

1. After issuing the command, wait and see the progress of commond 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
116102120121	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				
				×	
	SN	Ture	Failed to issue	the command	
	116102126702	type	Status	Error Code	
	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.