

Safety Parameter Setting User Manual

FOR WEB:

HiPortal® on <https://www.hyponportal.com/signin>

FOR APP:

HiPortal® APP is available from **Apple App Store**, **Google Play**, and **Android APK**.

Scan the QR Code below to download **HiPortal® APP** on your smartphone.



1. Enter the parameter setting page

1.1 Enter the parameter setting page from web

Step1: Enter the plant page and find the **Device** menu

Step2: Find the **Inverter List**

Step3: Find the inverter **Alias/Sn**

Step4: Click the **More** menu

Step5: Click the **Parameter Setting** menu

Step6: Click the parameter menu and see more parameters to set

Overview **Device** Event

1

Status Statistics

Normal	Warning	Fault	Off-line	All Types
2	0	0	0	2

Inverter List 2

Please input inverter alias

Status	Alias/Sn	Power(W)	Etoday(kWh)	Gateway	Last Update	More
3	S65000A119702023	3517	6	E47011970726	a minute ago	4
	S30000A119702022	2735	4.6	E47011970727	a min	Set Alias

5

Parameter Setting

Legend: Normal (Green), Warning (Yellow), Fault (Red), Off-line (Grey), Upgrading (Blue)

Parameter Setting (S65000A119702023)

Grid Standard	Grid fault recovery	>
Grid Protection	Grid voltage protection	>
Active Power Control	Grid frequency protection	>
Reactive Control	10 min average voltage protection	>
	Grid Fault recovery	>

1.2 Enter the parameter setting page from App

Step1: Enter the plant page and click the **Devices** menu

Step2: Find the inverter and long press

Step3: Click the **Settings** menu

Step4: Slide the screen to see more parameter

Step5: Click the parameter menu and see more parameters to set



Hypontech_Demo



E47011970726

Online



S65000A119702023

E-Today 25.60 kWh Power 2.36 kw

Online



E47011970727

Online



S30000A119702022

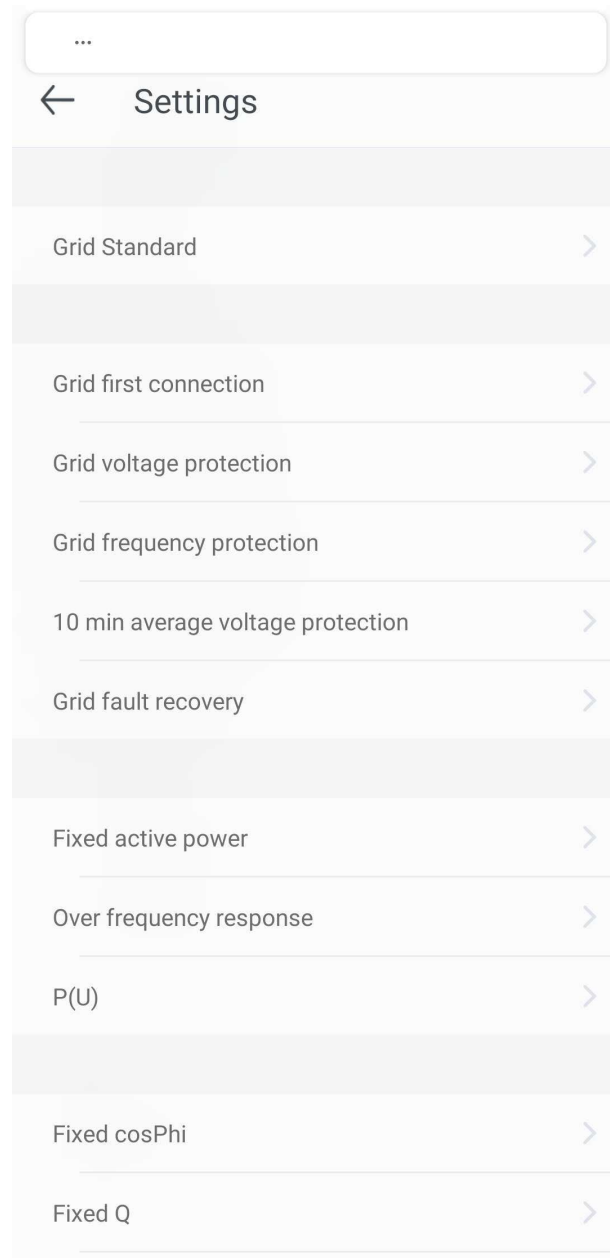
E-Today 18.90 kWh Power 1.74 kw

Online

Delete

Settings

Cancel



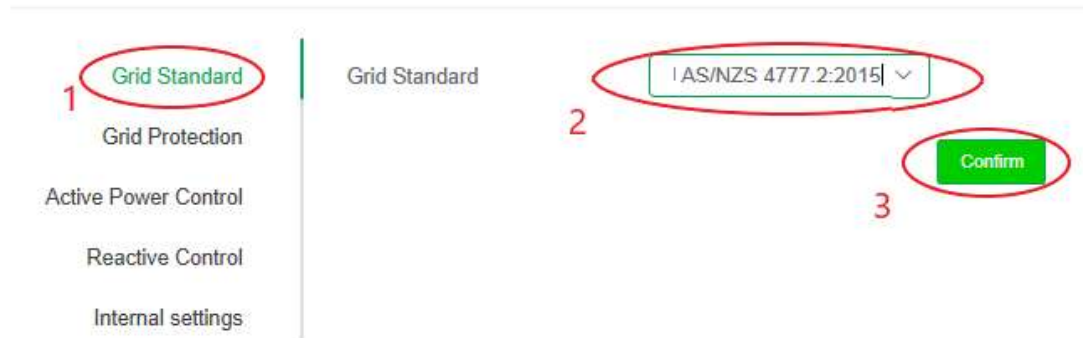
2. Set grid standard

Step1: Click the **Grid Standard** menu

Step2: Set the grid standard

Step3: Click **Confirm** button

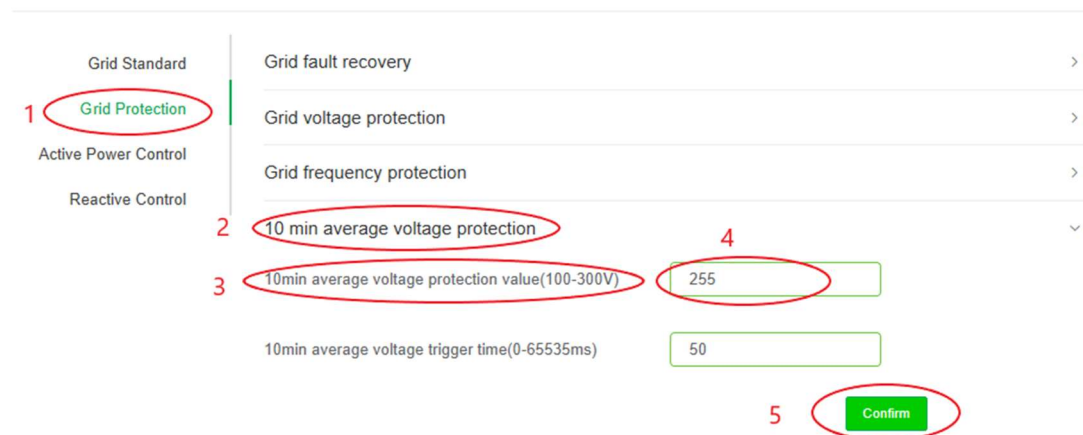
Parameter Setting (S65000A119702024)



3. Set grid protection parameter

- Step1: Click the **Grid Protection** menu
- Step2: Click the protection type menu
- Step3: Find the parameter
- Step4: Set the value
- Step5: Click **Confirm** button

Parameter Setting (S65000A119702023)

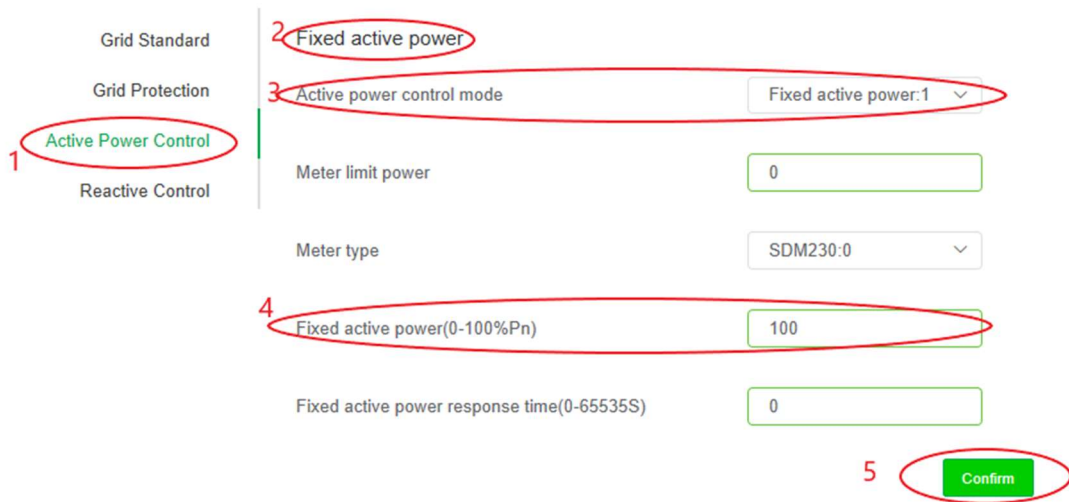


4. Set active power control parameter

3.1 Set fix active power mode

- Step1: Click the **Active Power Control** menu
- Step2: Click the **Fixed Active Power** menu
- Step3: Set **Active power control mode** to **Fixed active power**
- Step4: Set **Fixed active power**
- Step5: Click **Confirm** button

Parameter Setting (S65000A119702023)

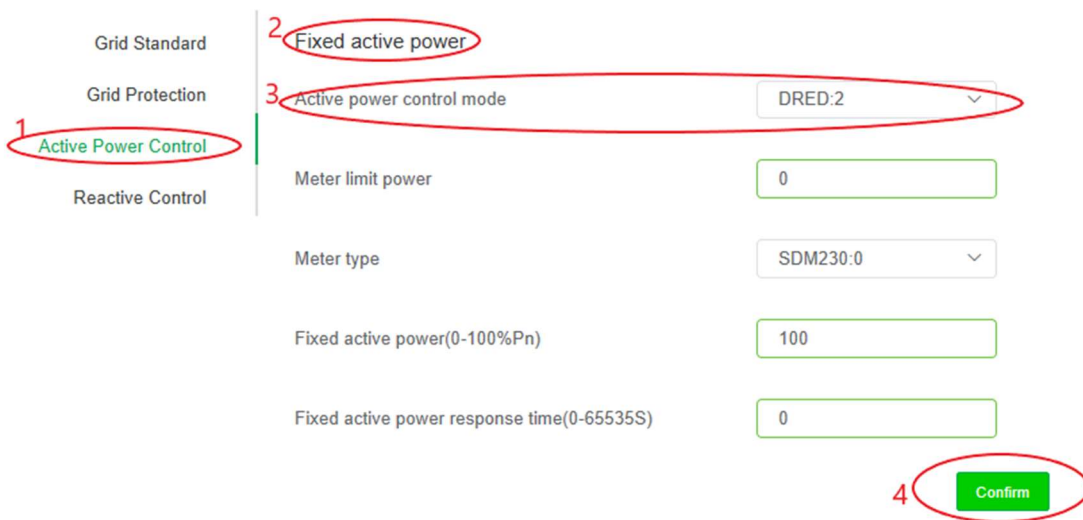


Grid Standard	Fixed active power	
Grid Protection	Active power control mode	Fixed active power:1
Active Power Control	Meter limit power	0
Reactive Control	Meter type	SDM230:0
	Fixed active power(0-100%Pn)	100
	Fixed active power response time(0-65535S)	0
		Confirm

3.2 Set DRED mode

- Step1: Click the **Active Power Control** menu
- Step2: Click the **Fixed Active Power** menu
- Step3: Set **Active power control mode** to **DRED**
- Step4: Click **Confirm** button

Parameter Setting (S65000A119702023)



Grid Standard	Fixed active power	
Grid Protection	Active power control mode	DRED:2
Active Power Control	Meter limit power	0
Reactive Control	Meter type	SDM230:0
	Fixed active power(0-100%Pn)	100
	Fixed active power response time(0-65535S)	0
		Confirm

3.3 Set Meter mode

- Step1: Click the **Active Power Control** menu
- Step2: Click the **Fixed Active Power** menu
- Step3: Set **Active power control mode** to **Meter**
- Step4: Set **Meter limit power**
- Step5: Set **Meter type**
- Step6: Click **Confirm** button

Parameter Setting (S65000A119702023)

Grid Standard	2	Fixed active power	
Grid Protection	3	Active power control mode	Meter:3
1	Active Power Control		
Reactive Control	4	Meter limit power	0
	5	Meter type	SDM230:0
		Fixed active power(0-100%Pn)	100
		Fixed active power response time(0-65535S)	0
			6
			Confirm

3.4 Set Over frequency response mode

Step1: Click the **Active Power Control** menu

Step2: Click the **Over frequency response** menu

Step3: Set **Over frequency response enable** to **Enable** and set other parameters

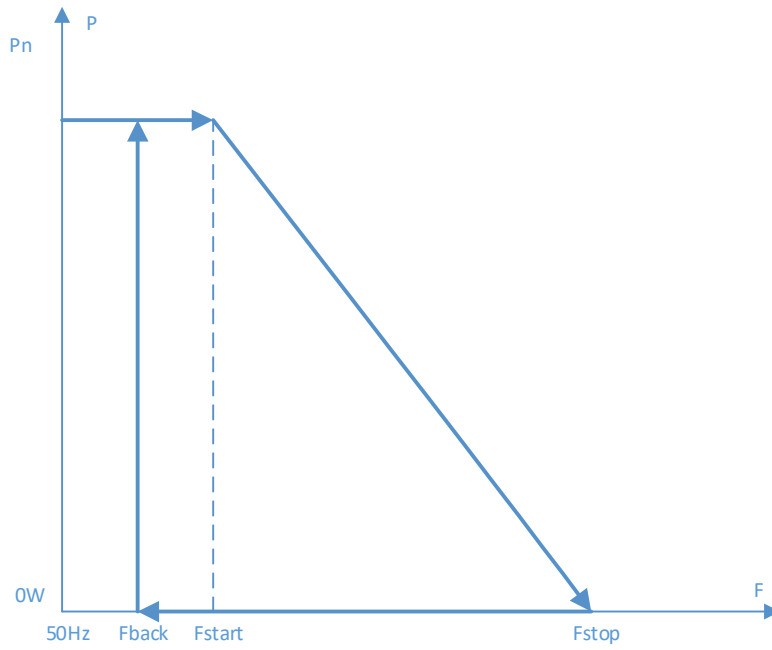
Step4 Click **Confirm** button

Grid Protection	2	Over frequency response	
1	Active Power Control	Over frequency response enable	Enable:1
Reactive Control	3	Over frequency response mode	Hysteresis mode:1
		Over frequency response Fstart(45-65Hz)	50.25
		Over frequency response Fstop(45-65Hz)	52.75
		Over frequency response P drop rate(%Pn/min)	16.2
		Over frequency response Fback(45-65Hz)	50.15
		Over frequency response P recovery rate(%Pn/min)	16.2
		Over frequency response delay time(0-65535S)	0
		Over frequency recovery delay time(0-65535S)	60
			4
			Confirm

The relation between output power and frequency:

$$P_{out} = P_{ref} * \left(1 - \frac{(F - F_{start})}{(F_{stop} - F_{start})}\right)$$

The diagram of output power and frequency:



3.4 Set P(U) mode(Volt-watt response mode)

Step1: Click the **Active Power Control** menu

Step2: Click the **P(U)** menu

Step3: Set **P(U) curve enable** to **Enable** and set other parameters

Step4 Click **Confirm** button

Active Power Control

1 Reactive Control

2 P(U)

3

P(U) curve enable Enable:1

P(U) curve P1(0-100%Pn) 100

P(U) curve U1(100-300V) 207

P(U) curve P2(0-100%Pn) 100

P(U) curve U2(100-300V) 230

P(U) curve P3(0-100%Pn) 100

P(U) curve U3(100-300V) 250

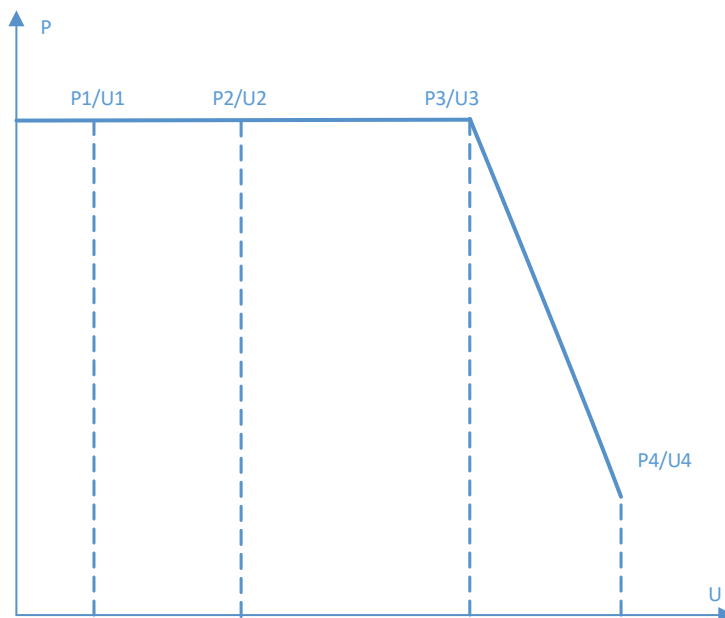
P(U) curve P4(0-100%Pn) 100

P(U) curve U4(100-300V) 264.5

P response time(0-60S) 60

4 Confirm

The diagram of output power and voltage:



5. Set reactive power control parameter

4.1 Set reactive power control mode

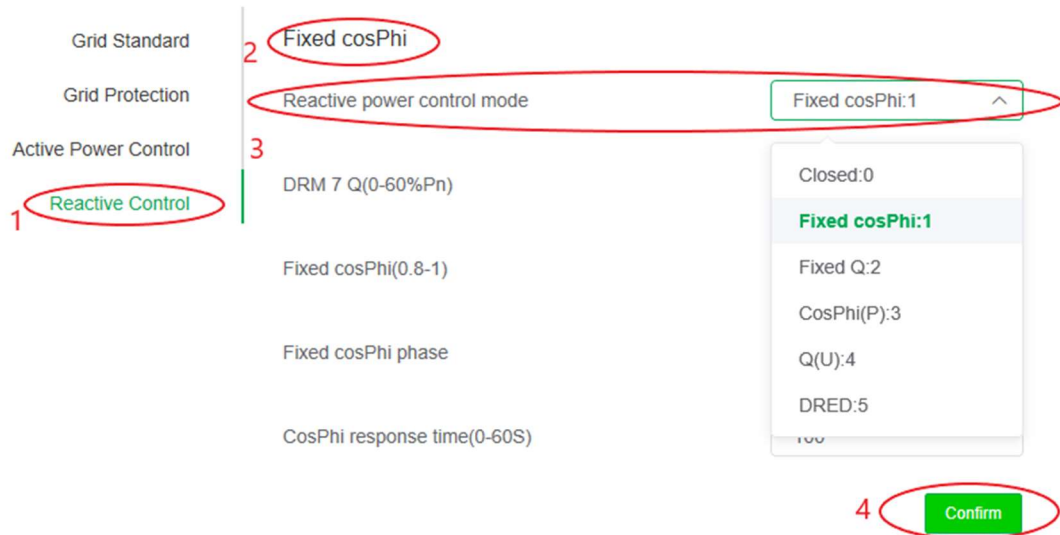
Step1: Click the **Reactive Power Control** menu

Step2: Click the **Fixed cosPhi** menu

Step3: Set **Reactive power control mode** to **Fixed cosPhi**(Fixed power factor mode)/**Fixed Q**(Reactive power mode)/**CosPhi(P)**(Characteristic power factor curve for cosPhi(P))/**Q(U)**(Volt-var response mode)

(If chose the fixed cosPhi mode, setting **Fixed cosPhi** and **phase**. If chose the fixed other mode, enter other mode menu.)

Step4: Click **Confirm** button



4.2 Set cosPhi(P) curve (Characteristic power factor curve for cosPhi(P))

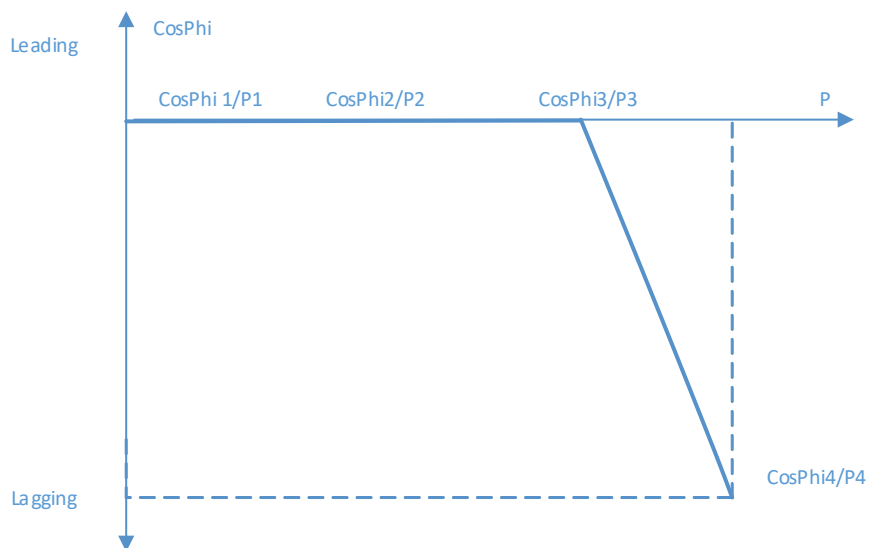
Step1: Click the **Reactive Power Control** menu

Step2: Click the **cosPhi(P) curve** menu

Step3: Set parameter

Step4: Click **Confirm** button

The diagram of cosPhi and output power:



4.2 Set Q(U) curve (Volt-var response mode)

Step1: Click the **Reactive Power Control** menu

Step2: Click the **Q(U) curve** menu

Step3: Set parameter

Step4: Click **Confirm** button

The diagram of Q and output power:

