

# **Export limitation configuration on Smartlogger3000**



# Huawei Technologies Co. Ltd.

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This manual describes the operation and maintenance instructions of the export limitation function. The Export Limitation feature is mainly used in the self-use scenario. The SmartLogger3000 detects the active power of the grid-tied point electric meter, controls the active output of the inverter in a closed-loop manner, prevents the inverter output power from being transmitted to the power grid, and maximizes the inverter power generation for local load consumption.

# 1. System Network Diagram

Without the DO control circuit breaker:



With the DO control circuit breaker:



# Note:

If the connected power meter model is UMG604, PD510, PZ96L, UPM209, or COUNTIS E43, select the corresponding model in the Intelligent Power Meter Type drop-down list box. When the UPM209 or COUNTIS E43 power meter is connected to the SmartLogger3000, a 120-ohm resistor needs to be connected to the RS485 bus of the meter. For details, see the user manual of the power meter.

**COUNTIS E43: Not applicable to Single phase power** 

Power meters recommended:

![](_page_2_Picture_0.jpeg)

			-	-
Manufacturer	Model	Built-in	Zero Export	Remarks
ABB	A44	Yes	-	Note:"Supported" means that
Acrel	PZ96L	Yes	Supported	this model has been tested and
algodue	UPM209	Yes	Supported	verificated; while other models are
CHNT	DTSU666	Yes	-	not tested, can not verify whether
CHNT	DTSU666-H	Yes	Supported	the "Zero Export" can be achieved.
Elster	A1800ALPHA	Yes	-	
GIMAC-i	MODBUS ENG MAP(120613)	Only Evaluated accessible	-	
Iskra	MC320	Only Evaluated accessible	-	
Iskra	MC774	Only Evaluated accessible	-	
Janitza	UMG604/UMG103/UMG104	Yes	Supported	
Lead	LD-C83	Yes	-	
MingHua	CRDM-830	Yes	-	
Mitsubishi	LMS-0441E	Yes	-	
NARUN	PD510	Yes	-	
Netbiter	CEWE	Yes	-	
People	RM858E	Yes	-	
PowerLogic	ION6200	Only Evaluated accessible	-	
PowerLogic	ION7600ION7550/ION7600	Only Evaluated accessible	-	
SATEC	PM130 PLUS	Only Evaluated accessible	-	
Schneider	iEM3000 series	Only Evaluated accessible	-	
Schneider	PM1000	Only Evaluated accessible		
Schneider	PM1200	Yes	-	
SFERE	PD194Z	Yes	-	
Socomec	COUNTIS E43	Yes	Supported (Note: the meter cannot support the imbalance load scenario)	
Toshiba	S2MS	Yes	-	1
weisheng	DSSD331	Only Evaluated accessible	-	1

#### 2. Connecting the inverters

Connect the Ethernet cables in WAN port and write in a browser the link <u>https://192.168.0.10</u> (default password "**Changeme**") and login as Admin $\rightarrow$ Maintenance $\rightarrow$ Connect Device $\rightarrow$ Auto assign address  $\rightarrow$ Set start address to 1 $\rightarrow$ Auto assign address

# Note: after first login you need to change the password.

![](_page_3_Picture_0.jpeg)

e power system	English	~ (IF)
Enspire	Over View Monitoring Query Settings Maintenance	1 🚺 0 🕕 0 🗍
<ul> <li>Firmware Upgrade</li> </ul>	Total Device Qty:2	000
OProduct Information	Connect Device	
Security Settings	Device disconnection time 5 min(S-30)	
<ul> <li>System Maint.</li> </ul>	Submit Submit	
Device Log	No. Device Auto Assign Address Device status	_
<ul> <li>Onsite Test</li> </ul>	Start address 1 (1-247)	
License Management		_
– Device Mgmt.		
Connect Device		
Device List		
	Auto Assign Address	
	Auto. Search Add Devices Remove Devices Auto Assign Address Import Config. Lxport Config	
Time 2018-10-17 22:33	Grid dispatch: P – 100% PF – NA 🆓 Copyright 🗘 Huawei Technologies Co., Hd. 2017. All	rights reserved.

After select auto assign address follow the below steps: confirm start allocate address  $\rightarrow$  confirm address need adjustment  $\rightarrow$  address adjustment  $\rightarrow$  confirm

Auto Assign Address	Auto Assign Address
Start address 1 (1-247)	Start address 1 (1 247)
Start to allocate addresses?	Does the address need adjusting?
Address Adjustment 8	Address Adjustment
Total Device Qty. : 1	Total Device Qty. : 1
Existing Devices	Existing Devices
21010729676TGA901546(Port2) 1 (1-247) 1 5 1	21010729676TGA901546(Port2) 1 (1 247)
Address Adjustment	Address Adjustment

Search result:

![](_page_4_Picture_0.jpeg)

E « power system		Deple	ovment Wizard	Over View Monitorin	g Query	Settings M	intenance		English	
Firmware Upgrade	Total D	evice Qty	:2		5 (2)					
Product Information	Conn	ect Device	2							
Security Settings					Built-in PLC	Enable	~			
Surton Maint				Device disc	onnection time	5	mîn(5-30)			
- System Maint.						Submit				
C Device Log		No.	Device			Port-Comm Add	r./IP address	SN	Device status	
<ul> <li>Onsite Test</li> </ul>		1	50KTL(COM2	-1)		2-1		INVSUN2000V2R2C00001	•	
License Management		2	50KTL(COM2	-2)		2-2		INVSUN2000V2R2C00002	٠	
🖶 Device Mgmt.										
Connect Device										
Device List	1									
Export Param.	1									
Clear Alarm										
Collect Perf. Data										
Adjust total energy yield										
	Auto.	Search	Add Devices	Remove Devices Auto A	sign Address	Import Config.	Export Config			

#### 3. Connect the power meter

The power meter does not support automatic search and needs to be added manually.

# 3.1 Set the RS485 communication port

As Admin from Settings $\rightarrow$ Comm. Param.  $\rightarrow$ RS485 and set the ports where the power meter is connected: baud rate, parity, stop bit and start address-end address:

🗲 @ power system										Eng	lish	* ( <b>6 e</b> )
Enspire	Deployment V	Vizard Over Vi	ew	Monitoring	Quer	y Settings	Ma	aintenance			ad 🔼	
🗆 User Param.	<b>RS485</b>											
Date&Time	R\$485	Protocol		Baud rate		Parity		Stop Bit	Star	taddress	End add	ress
Plant	RS485-1(COM1)	Modbus	۲	19200	۲	Even parity	۲	1 •	1	[1, 247]	10	[1, 247]
Revenue	RS485-2(COM2)	Modbus	۲	9600	۲	None	۲	1 *	1	[1, 247]	247	[1, 247]
Save Period	RS485-3(COM3)	Modbus	۲	9600	۲	None	٠	1 •	1	[1, 247]	247	[1, 247]
Comm. Param.					Su	bmit						
Wireless Network	😻 Night Comm. Se	ttings										
Wired Network	😸 Records											
R\$485	•											
Power Meter												
Management System												
Modbus TCP												

**RS485-1** to **RS485-3** correspond to the communications ports **COM1** to **COM3**, and the default baud rate is 9600 bps. For the power meter connected to the corresponding RS485 port, the values

![](_page_5_Picture_0.jpeg)

of Protocol, Baud rate, Parity, and Stop bit must be the same as those from user manual.

#### **3.2** Add the power meter

Connect the power meter in one of the RS485 port of the Smartlogger3000. As Admin from Maintenance menu chose Connect Device  $\rightarrow$  Add device  $\rightarrow$  Choose Device Type Power Meter  $\rightarrow$  Comm. Protocol Modbus-RTU  $\rightarrow$  set the Port number accordingly and the RS485 communication address of the Power Meter  $\rightarrow$  Add device

n e power system				English v 🔞 🕞					
Enspire	Deploy	ment Wizard O							
<ul> <li>Firmware Upgrade</li> </ul>	Total Device (	Total Device Qty.:6							
• Product Information	Connect Dev	vice							
<ul> <li>Security Settings</li> </ul>			Device disconnection time 5 min[5, 30]						
<ul> <li>System Maint.</li> </ul>			Submit	×					
Device Log	No.	Device 🗘	Add Devices	Device status 🗢					
Onsite Test	1	EMI(AI-67)	Device Type Power Meter	•					
Onate reat	2	SUN2000(COM1-	Comm. Protocol Modbus-RTU V	•					
<ul> <li>License Management</li> </ul>	3	SUN2000(COM1-	Port number COM2	-					
Device Mgmt.	4	SUN2000(COM1-	Address 1 [1, 247]						
Connect Device		SUN2000(COM1-							
		EIVII(COIVIT-TO)							
			Add Devices Close						
				-					
	Auto. Search	Add Devices	Remove Devices Auto Assign Address Import Config. Export Config						
Time 2019-11-19 04:18	Grid dispatch P	:NA Q:NA	🦇 Copyright © Huawei	i Technologies Co., Ltd. 2019. All rights reserved.					

# **3.3 Select the power meter type**

As Admin form Settings→Comm. Param. , menu choose Power meter, select the meter type and submit:

![](_page_6_Picture_0.jpeg)

e power system	English V (j)	G
Enspire	Deployment Wizard Over View Monitoring Query Settings Maintenance	<u>.</u>
= User Param.	Power Meter Param. Settings(Modbus-RTU)	
Date&Time	Intelligent Power Meter Type CHNT DTSU666-H	
Plant	Voltage change ratio ABB A44 Acrel PZ96L	
Revenue	Current change ratio algodue UPM209 [0.1, 65535.0]	_
Save Period	CHNY DISU666-H	
Comm. Param.	Elster A1800ALPHA Janitza UMG103/UMG104/UMG604	
Wireless Network	Lead LD-C83 MingHua CRDM-830	
Wired Network	Mitsubishi LMS-0441E NARUN PDS10	
RS485	NetBiter CEWE	
Power Meter	People KM858E Schneider PM1200	
Management System	SFERE PD194Z	
Modbus TCP	Toshiba S2MS	
IEC102	Other	
IEC103		
	English v (1)	B
Enspire		
	Deployment Wizard Over View Monitoring Query Settings Maintenance	<u></u>
User Param.	Power Meter Param. Settings(Modbus-RTU)	
Date&Time	Intelligent Power Meter Type CHNT DTSU666-H	
Plant	Voltage change ratio [0.1, 65535.0]	
Revenue	Current change ratio [0.1, 65535.0]	
Save Period	Submit	
Comm. Param.		

If the installed meter is not in the default list you need to choose the type other and set all the register for the meter and submit:

🗾 🐵 power system						Englis	sh 🗸 🔞 🕞
Enspire		eployment Wizard Ove	r View Monitoring	Query Settings	Maintenance		
🗆 User Param. 🦢	Power	r Meter Param. Settings(Mod	bus-RTU)				
Date&Time		Intellio	gent Power Meter Type	Other		•	
Plant			Read function code	Read holding register 03	H	T	
Revenue			Read mode	Single read		•	
Save Period		Word o	ordering+Byte ordering	MSB+MSB		<b>v</b> 😮	
Comm. Param.			Voltage change ratio	1.0		[0.1, 65535.0]	
Wireless Network	I		Current change ratio	1.0		[0.1, 65535.0]	
	No.	Signal Name	Signal address	Number of Registers	Gain	Data Type	Unit
Wired Network	1	Phase A voltage	2110 [0, 65535]	2 🔹	1.0 [0.0, 1000000.0]	Floating point •	V
RS485	2	Phase B voltage	2112 [0, 65535]	2 🔻	1.0 [0.0, 1000000.0]	Floating point •	V
Power Meter	3	Phase C voltage	2114 [0, 65535]	2 🔹	1.0 [0.0, 1000000.0]	Floating point •	v
Management System	4	A-B line voltage	2118 [0, 65535]	2 🔹	1.0 [0.0, 1000000.0]	Floating point •	v
Modbus TCP	5	B-C line voltage	2120 [0, 65535]	2 •	1.0 [0.0, 1000000.0]	Floating point •	V
IEC103	6	C-A line voltage	2122 [0, 65535]	2 •	1.0 [0.0, 1000000.0]	Floating point •	v
IEC104	7	Phase A current	2102 [0, 65535]	2 •	1.0 [0.0, 1000000.0]	Floating point •	А
FTP	8	Phase B current	2104 [0, 65535]	2 *	1.0 [0.0, 1000000.0]	Floating point •	A
Email	9	Phase C current	2106 [0, 65535]	2 •	1.0 [0.0, 1000000.0]	Floating point •	Α
Power Adjustment	10	Active power	2126 [0, 65535]	2 •	1000.0 [0.0, 1000000.0]	Floating point •	kW
Remote Shutdown	11	Phase A active power	2128 [0, 65535]	2 •	1000.0 [0.0, 1000000.0]	Floating point •	kW
DI	12	Phase B active power	2130 10. 655351	2 •	1000.0 ro.0. 1000000.01	Floating point •	kW
Time 2020-03-02 04:23	Grid dispa				🧤 Copyright (	© Huawei Technologies Co., Ltd.	2019. All rights reserve

![](_page_7_Picture_0.jpeg)

#### **3.4** Check the power meter status

From Monitoring menu select the Meter and check the status:

Enspire				English 🗸 🕡 🕞
SmartLogger3000		Running Info. Performance Data About	Query Settings Maintenance	
Logger(Local)	No.	Signal Name	Value	Unit
Power Meter	1	Device status	Disconnection	<u>~</u>
Meter(COM1-11)	2	Line voltage between phases A and B	NA	V
MRUS	3	Line voltage between phases B and C	NA	V
	4	Line voltage between phases C and A	NA	V
MBUS-inside	5	Phase A voltage	NA	V
	6	Phase B voltage	NA	V
	7	Phase C voltage	NA	V
	<b>8</b>	Phase A current	NA	А
	9	Phase B current	NA	A
	10	Phase C current	NA	А
	11	Phase A active power	NA	kW
	12	Phase B active power	NA	kW
	13	Phase C active power	NA	kW
	14	Active power	NA	kW
	40	and the second se		1

If the power meter show the status disconnected you need to check the physical connection and the communication parameters. The status of the power meter should be green and connected.

#### 4. Disable active power control

As Admin from Settings menu→Power Adjustment→Active Power Control→set active power control to No limit→Submit

![](_page_7_Picture_9.jpeg)

![](_page_8_Picture_0.jpeg)

# 5. Export limitation configuration (Wizard configuration)

# **5.1** Confirm to the Power Meter

As Admin choose Settings  $\rightarrow$  Power Adjustment  $\rightarrow$  Export Limitation to access the target page. Check the meter port, type and the communication settings and choose Next:

E @ power system					English 🗸 🕼 🕞
Enspire	Deployment Wizard	Over View Monitoring	Query Settings	Maintenance	
User Param.	2-2-	3			
Date&Time	Power Meter Inverter Parameter	Export Limitation s Parameters			
Plant					
Revenue	Modbus RTU				😮 Help
Save Period		Port	COM1 •		
Comm. Param.		Baud rate	19200 •		
Power Adjustment		Parity	Even parity •		
Active Power Control		Intelligent Power Meter Type	CHNT DTSU666-H 🔻		
Reactive Power Control	1	Voltage change ratio	1.0	0.1, 65535.0]	
Export Limitation		Current change ratio	1.0	0.1, 65535.0]	
Smart Reactive Power C		Address	11	[1, 247]	
DRM			Add Devices		
Remote Shutdown	Power Meter Running Informa	tion			
O DI	Meter(COM1-11) 🔹 🛄	Signal Name		Value	Unit
<ul> <li>Alarm Output</li> </ul>		Device status		Disconnection	A
Smart Tracking Algorithm		Line voltage between phases A a	nd B	NA	V
Other Parameters		Line voltage between phases B a	nd C	NA	V
other Parameters		Line voltage between phases C a	nd A	NA	
				44	
Time 2020-03-02 04:32				👐 Copyright © Huawei Technol	

5.2 Set inverters parameters

![](_page_9_Picture_0.jpeg)

n power system						English 🗸 🔞 🕞
Enspire	Deployr	nent Wiz	ard Over View Monitoring Query Sett	ings Mainter	ance	
User Param.	0-		-23			
Date&Time	Power Mete	r I Pa	nverter Export Limitation rameters Parameters			
Plant						
Revenue	Inverter Para	neters				😮 Help
Save Period	IIA 🗹	No.	Signal Name	Value		Unit
Comm. Param.		1	Active power change gradient	125.000	[0.100, 50.000]	%/s
Power Adjustment		2	Soft start time	20	[20, 1800]	s
		3	Soft start time after grid failure	20	[20, 800]	s
Active Power Control	•	4	Communication interrupt shutdown	Enable	v	
Reactive Power Control		5	Communication resumed startup	Enable	Y	
Export Limitation		6	Communication interruption duration	1	[1, 120]	min
Smart Reactive Power C		7	Plant active power gradient	0	[0, 60]	min/100%
DRM			Batch con	figurations		
Remote Shutdown						
o DI						
<ul> <li>Alarm Output</li> </ul>						
<ul> <li>Smart Tracking Algorithm</li> </ul>						
Other Parameters						
						Preveus Next
Time 2020-03-02 04:36	Grid dispatch P	Disable (	Q : Q-U curve	4	🎉 Copyright © Huawei Technologies (	Co., Ltd. 2019. All rights reserved.

-Set active power change gradient:

-125%/s, if the maximum value range is 50%/s, set this parameter to 50%/s.

-Enable the communication interruption shut down and communication resumed startup.

-Select Batch configuration to set all the inverters and after that select Next

# **5.3 Configuring Export Limitation Parameters**

Enable the function export limitation, set all the details and submit:

-Select power meter

-Select the sense of the power meter: positive or reverse

-Set the limitation mode: total power or single-phase power

-Set maximum feed-in

-Set the power raising threshold that should be always higher than maximum feed-in -Submit

![](_page_10_Picture_0.jpeg)

🔁 @ power system			English 🗸 🔞 🕞
Enspire	Deployment Wizard Over View Monitoring	Query Settings Maintenance	
🗆 User Param.	Export Limitation		😮 Help 🔺
Date&Time	Active power control mode	Export Limitation(kW)	
Plant	Status	Normal	
Revenue	Common Parameters		-
Save Period	Power Meter	Smart meter 🔹	
F Comm. Param.	Electric meter power direction	Positive	
	Limitation mode	Reverse	
Power Adjustment	Maximum grid feed-in power	0.000	1000.000, 5000.000]kW
Active Power Control	Power lowering adjustment period	0.5	0.2, 300.0]s
Reactive Power Control	Maximum protection time	3.0 [	2.0, 300.0]s
Export Limitation	Power raising threshold	5.000	0.001, 50.000]kW
Smart Reactive Power C	Extended Parameters		
DRM	Fail-safe power threshold	0.0	0.0, 100.0]%
	-		
e power system			English v 🔞 🕞
Enspire	Deployment Wizard Over View Monitoring	Query Settings Maintenance	English v 🔞 🕞
Dee power system	Deployment Wizard Over View Monitoring Export Limitation	Query Settings Maintenance	English v () C
- User Param.	Deployment Wizard Over View Monitoring Export Limitation Active power control mode	Query     Settings     Maintenance       Export Limitation(kW)     •	English v () [] [] [] [] [] [] [] [] [] [] [] [] []
- User Param. Date&Time	Deployment Wizard Over View Monitoring Export Limitation Active power control mode Status	Query     Settings     Maintenance       Export Limitation(kW)     •	English v (i) E atl A 0 1 0 0 0 i Help A
User Param. Date&Time Plant	Deployment Wizard Over View Monitoring Export Limitation Active power control mode Status Common Parameters	Query     Settings     Maintenance       Export Limitation(kW)     •       Normal	English V () C
Dower system     Date&Time     Plant     Revenue	Deployment Wizard Over View Monitoring Export Limitation Active power control mode Status Common Parameters Power Meter	Query     Settings     Maintenance       Export Limitation(kW)     •       Normal       Smart meter	English V () Engli
Dower system     Oser Param.     Date&Time     Plant     Revenue     Save Period	Deployment Wizard Over View Monitoring Export Limitation Active power control mode Status Common Parameters Power Meter Electric meter power direction	Query     Settings     Maintenance       Export Limitation(kW)     •       Normal       Smart meter     •       Positive     •	English V () EN
Dower system     Ouser Param.     Date&Time     Plant     Revenue     Save Period      Comm. Param.	Deployment Wizard Over View Monitoring Export Limitation Active power control mode Status Common Parameters Power Meter Electric meter power direction Limitation mode	Query     Settings     Maintenance       Export Limitation(kW)     •       Normal       Smart meter     •       Positive     •       Total power     •	English V () Engli
Dower system     Ouser Param.     Date&Time     Plant     Revenue     Save Period      Comm. Param.      Power Adjustment	Deployment Wizard Over View Monitoring Export Limitation Active power control mode Status Common Parameters Power Meter Electric meter power direction Limitation mode Maximum grid feed-in power	Query     Settings     Maintenance       Export Limitation(kW)     •       Normal       Smart meter     •       Positive     •       Total power     •       Sindle-phase power     •	English
Date&Time     Plant     Revenue     Save Period      Comm. Param.      Power Adjustment     Active Power Control	Deployment Wizard Over View Monitoring Export Limitation Active power control mode Status Common Parameters Power Meter Electric meter power direction Limitation mode Maximum grid feed-in power Power lowering adjustment period	Query     Settings     Maintenance       Export Limitation(kW)     •       Normal       Smart meter     •       Positive     •       Total power     •       Single-phase power     •       0.5     •	English
	Deployment Wizard Over View Monitoring Export Limitation Active power control mode Status Common Parameters Power Meter Electric meter power direction Limitation mode Maximum grid feed-in power Power lowering adjustment period Maximum protection time	Query     Settings     Maintenance       Export Limitation(kW)     •       Normal       Smart meter     •       Positive     •       Total power     •       Single-phase power     •       0.5     •       3.0     •	English
	Deployment Wizard Over View Monitoring Export Limitation Active power control mode Status Common Parameters Power Meter Electric meter power direction Limitation mode Maximum grid feed-in power Power lowering adjustment period Maximum protection time Power raising threshold	Query     Settings     Maintenance       Export Limitation(kW)     •       Normal       Smart meter     •       Positive     •       Total power     •       Single-phase power     •       0.5     •       3.0     •       5.000     •	English
	Deployment Wizard Over View Monitoring Export Limitation Active power control mode Status Common Parameters Power Meter Electric meter power direction Limitation mode Maximum grid feed-in power Power lowering adjustment period Maximum protection time Power raising threshold Extended Parameters	Query     Settings     Maintenance       Export Limitation(kW)     •       Normal       Smart meter     •       Positive     •       Total power     •       Single-phase power     •       0.5     •       3.0     •       5.000     •	English

🗲 @ power system					English	· ()	•
Enspire	Deployment Wizard Over View	Monitoring	Query Settings Maintenan	ce		<u> </u>	0
User Param.	Export Limitation					😮 Help	-
Date&Time	Active p	ower control mode	Export Limitation(kW)	•			
Plant		Status	Normal				
Revenue	Common Parameters						
Save Period		Power Meter	Smart meter	۲			
	Electric me	ter power direction	Positive	۲			
Comm. Param.		Limitation mode	Total power	•			
Power Adjustment	Maximum	grid feed-in power	0.000		[-1000.000, 5000.000]kW		
Active Power Control	Power lowering	adjustment period	0.5		[0.2, 300.0]s		
Reactive Power Control	<ul> <li>Maxim</li> </ul>	um protection time	3.0		[2.0, 300.0]s		
Export Limitation	Pow	er raising threshold	5.000		[0.001, 50.000] <b>kW</b>		
Smart Reactive Power C	Extended Parameters						
DRM	Fail-sa	fe power threshold	0.0		[0.0, 100.0]%		
- Romoto Shutdown	Switch-off v	vith 0% power limit	Disable	۲			
C Remote Shutdown	Swi	tch-off control port	No	۲			
• DI	Swi	tch-on control port	No	۲			
<ul> <li>Alarm Output</li> </ul>	Switch-off	state feedback port	No	•			
Smart Tracking Algorithm	Switch-on	state feedback port	No	•			
• Other Parameters			Submit				-
						Previous	
Time 2020-03-02 04:56	Grid dispatch P : Disable Q : Q-U curve		ક્રાફ	Copyright © Hua	wei Technologies Co., Ltd. 201	.9. All rights resen	red.

![](_page_11_Picture_0.jpeg)

# **Empirical Parameters**

Meter Model	Power Lowering Adjustment Period	Maximum Protection Time	Description
UMG	0.5s	38	
COUNTIS E43	0.5s	3s	
UMP209	0.5s	38	
CHNT DTSU666-H	0.5s	3s	Under the Spanish RD1699 grid standard, please set Power Lowering Adjustment Period 0.8s, Maximum Protection Time 2s

#### 6. Troubleshooting

After you set export limitation and the function don't work please check the next:

- 6.1 The meter should be installed at the consumption main point and not on a secondary consumption point.
- 6.2 Check if the electric meter power direction is set correctly. You can check the meter sense following the next steps:
- -Disable the function export limitation

-Stop all the inverters: choose maintenance menu and stop the inverters in batch

Enspire		Deploym	nent Wizard Over View Monitoring	Query Settings Mainte	nance	English 🗸 🕧 🕞
• Firmware Upgrade	Total [	Device Qt	y.:7			<b>&gt;0</b> (3)
<ul> <li>Product Information</li> </ul>	Conr	nect Devi	ce			Batch
<ul> <li>Security Settings</li> </ul>	_		Device disconnection time	5 min[5, 30	נכ	
<ul> <li>System Maint.</li> </ul>				Submit		
Device Log		No.	Device 🗘	Port-Comm Addr./IP address 🗢	SN \$	Device status 🗘
		1	EMI(AI-67)	AI-67	EM01101890022772	•
Onsite Test		2	SUN2000(COM1-1)	1-1	HV1950008472	0
License Management		3	SUN2000(COM1-2)	1-2	HV1950008469	0
= Device Mamt.		4	SUN2000(COM1-3)	1-3	HV1950017309	0
		5	SUN2000(COM1-4)	1-4	HV1950008476	0
Connect Device		6	EMI(COM1-10)	1-10	EM00101890022772	0

-Go to Monitoring menu, select the meter and check the value of Active power. If the value is positive that set the electric meter power direction to positive. If the value is negative set the electric meter power direction to reverse.

![](_page_12_Picture_0.jpeg)

e power system		English 🗸 🔞 🕞
Enspire	Deployment Wizard Over View Monitoring Query Settings Maintenance	
SmartLogger3000	Running Info. Performance Data About	
Logger(Local)	No. Signal Name Value	Unit
Power Meter	5 Phase A voltage NA	V A
Meter(COM1-11)	6 Phase B voltage NA	V
MBUS	7 Phase C voltage NA	V
MBUS-inside	8 Phase A current NA	А
	9 Phase B current NA	A
	10 Phase C current NA	А
	11 Phase A active power NA	kW
	12 Phase B active power NA	kW
	13 Phase C active power NA	kW
	14 Active power 450	kW
	15 Reactive power NA	kvar

6.3 Check the power raising threshold

-If you set the maximum grid feed-in power to 0 than you can set the raising threshold to 0.1. After you check all of this the function should work without problem.

Contact service team at eu\_inverter\_support@huawei.com in order to receive help.

Europe +80 03 38 88 888 (except below countries)

Croatia/Latvia/Bulgaria +80 07 77 78 899

Iceland 800201866 Slovakia +40 31 22 61 915 Moldova 080061466

Serbia 800190899 Lithuania 880031499 Romania 0800400897

Australia 1800046639 Canada +40 31 22 61 915 New Zealand 080061466

America 1 877 9huawei