

Set the power factor on SUN2000 inverters



Huawei Technologies Co. Ltd.

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This document describes how to set the power factor on Huawei SUN2000 inverters locally and remote.

1. Set the power factor on SUN2000 8-28KTL inverters through LCD screen

Press enter and choose the down arrow to choose the Settings menu:



Login as Advanced User with the default password: 000001





Choose the arrows to select the Feature Param. and press enter:

ESC







Select the Power factor, press enter and set the power factor:



2. Set the power factor on SUN2000 33-A-105KTL through SUN2000APP

Login as special user on inverter with SUN2000APP and choose Settings:

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Always Available	Fu	nction menu	Ē
for Highest Yields	Alarm		
		A 1	
	Running Info.	Settings	\$
Bluetooth connection Special user Log in	Energy yield	Maintena	ince
00000a	Inverter update	Device logs	About
Tool kit			
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From Settings menu choose **Power adjustment**, select the **Power factor** and set the power factor:

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C Power adjustment		Power adjust	tment
Remote power schedule		Remote power schedu	ile
Active power change gradien	It (%/s)	Active power change	gradient(%/s)
0.000		0.000	
Fixed active power derating((W)	Fixed active power der	rating(kW)
30.0		20.0	
Active power percentage derating(%)		Power fac	ctor
100		Setting range:(-1.000,- [0.800.1.000]	0.800] U
Reactive power change grade	ient(%/	0.95	
NA			
Power factor((-1.000,-0.800] U [0.800,1.000])		Cancel	ОК
1.000		1.000	
Overfrequency derating NA		Overfrequency deratin	g
Voltage derating		Voltage derating NA	
PF (U) voltage detection filte time(s)	ring	PF (U) voltage detection time(s)	on filtering

3. Set the power factor throgh Smartlogger1000&2000

Login as Advanced User on Smartlogger1000&2000 with the default password Changeme:

HUAWEI			SmartLogger200
		Enspire	n 1
	Language	English	
	User Name	Special User	
	Password	â	
		Log In Reset	

From Monitoring menu select one inverter, choose Running Param., Power Adjustment, select the Power factor, set and select Batch configuration to set all the inverters:



Ensoure Ensoure					Eng	lish 🗸 🛈 🕞
	Deple	oyment Wiza	ard Over View Monitoring Q	uery Settings Ma	intenance	
SmartLogger2000	Runnin	ig Info. 🔨 Ac	tive Alarm Performance Data Yield	Running Param. LVRT	Characteristic Curve About	
Logger(Local)	Grid Pa	arameters	Protect Parameters Y Feature Parameters	Power Adjustment		
Custom1-ClimaSenso		No.	Signal Name	Value		Unit
 ClimaSenso(COM2-1) 	8	1	Remote power schedule	Enable	×	
= EMI	D	2	Plant active power gradient	0	(0-60)	min/100%
EMI(AL-1)		3	Filter duration for average active power	20	(20-300000)	ms
		4	Active power change gradient	125.000	(0.100-1000.000)	%/s
• EMI(COM1-1)		5	Fixed active power derated	0.0	(0.0-40.0)	kW
Power Meter	O	6	Active power percentage derating	100	(0-100)	%
 Meter(COM3-1) 	0	7	Reactive power change gradient	125.0	(0.1-1000.0)	%/s
- SUN2000		8	Power factor	0.95	-1.000,-0.800]U[0.800,1.000]	
ACKEL (COLMINIA)		9	Overfrequency derating	Disable	•	
O SONTL(COWIT-13)		10	Voltage derating	Disable		
36KTL(COM1-14)		11	PF(U) voltage detection filter time	1.5	(0.1-120.0)	5
36KTL(COM1-15)						
36KTL(COM1-16)						
36KTL(COM1-17)						
36KTL(COM1-18)						
36KTL(COM1-19)						
• 36KTL(COM1-20)						
36KTL(COM5-1)	- Submit	Batch confi	gurations		≪ ∢ 1 ▶ ≯	1/1 Page Go to
III Time 2019-04-02 04:32	Grid dispatch	P:NA PF:0	.900		👋 Copyright © Huawei Technologies Co., Ltd	l. 2018. All rights reserved.

🗲 🛛 power system							English	· (06)
Enspire	Deplo	yment Wiz	ard Over View	Mon	itoring Query Settings Maintenance)		
SmartLogger2000	Running	Info. A	ctive Alarm Perfo	ormance Da	ata 🔰 Yield 🖉 Running Param. 🔪 LVRT Characterist	tic Curve About		
Logger(Local)	Grid Par	ameters	Protect Parameters	Featur	e Parameters Power Adjustment			
Custom1-ClimaSenso		No.	Signal Name		Value		U	Init
ClimaSenso(COM2-1)		1	Remote power sch	edule	Enable	· 0		
- EMI		2	Plant active powe	Batch co	nfigurations	Y	m	nin/100%
EMI(AI-1)		3	Filter duration for		Select all the	0	n	IS
 EMI(COM1-1) 		4	Active power char		invertors	D.000)	%	5/s
- Power Motor		5	Fixed active powe		Inverters		k	W
E Power Mieler		6	Active power perc				%	
 Meter(COM3-1) 	U a	/	Reactive power cr)	%	5/S
SUN2000	2	8	Power factor			0010[0.800,1	L.UUU]	_
36KTL(COM1-13)		9	Voltage derating					_
36KTL(COM1-14)	8	11	PE(U) voltage dete				s	
36KTL(COM1-15)	-		ri(o) ronage act					
36KTL(COM1-16)						1000		
36KTL(COM1-17)					Confirm			
36KTL(COM1-18)								
 36KTL(COM1-19) 								
 36KTI (COM1-20) 								
36KTL(COM5-1)	- Submit	Batch conf	igurations			44 4 1	▶ ₩ 1/1 Pag	ge Go to
h Time 2019-04-02 04:34	Grid dispatch	P:NA PF:	0.900	6 6 6 8	👋 Сор	yright © Huawei Technologies (co., Ltd. 2018. All ri	ghts reserved.



4. Set the power factor through Neteco

From Monitor menu select one inverter \rightarrow Settings \rightarrow Power Adjustment \rightarrow set the power factor and Batch settings \rightarrow select all the inverters \rightarrow confirm with OK

∈t€co	Overview Monitor Historical E	Data Maintenance	System		English(English)
C	Details Alarm Settings Device Information Grid Parameters Pro Adjust total energy yield	tect Parameters Feature Parameters	Power Adjustment		
stem	Signal Name	Value		Unit	Information
	Remote power schedule	Enable			
	Active power change gradient	125.0	(0.1-1000.0)	%/s	
SmartLogger_14521	Fixed active power derated	40.0	(0.0-40.0)	kW	
36KTL(COM1-104)	Active power percentage derating	100	(0-100)	%	
EMI 14813	Reactive power change gradient	125.0	(0.1-1000.0)	%/s	
SUN2000_14814 SUN2000_14815	Plant active power gradient	0	(0-60)	min/100%	
SUN2000_14816	Average active power filtering time	60000	(20-300000)	ms	
SUN2000_14817	Power factor	0.95	(1,-0.800)U[0.800,1.000]		
SUN2000_14818	Overfrequency derating	Disable			
SUN2000_14819	Voltage derating	Disable			
3UN2000_14821 JUN2000_14822 3UN2000_14824 3UN2000_14824 SUN2000_15040 JUN2000_15041 SUN2000_15043 SUN2000_15043 SUN2000_15045 SUN2000_15046	Submit Synchronize Batch settings				

