

# SUNNY ISLAND 8.0H-13

(<http://www.sma-solar.com>)



Discard all

Save all

Export all parameters

Unsaved changes (0) ()

Parameter name

New value

▼ Type Label ()

▼ Inverter ()

Rated active power WMaxOutRtg	6,000 W
Rated active power WMaxInRtg	-6,000 W
Rated active power WMinOutRtg	0 W
Rated active power WMinInRtg	0 W
Rated reactive power VArMaxQ1Rtg	6,000 var
Rated reactive power VArMaxQ2Rtg	0 var
Rated reactive power VArMaxQ3Rtg	0 var
Rated reactive power VArMaxQ4Rtg	-6,000 var
Rated Cos Phi PFMinQ1Rtg	0.0000
Rated Cos Phi PFMinQ2Rtg	1.0000
Rated Cos Phi PFMinQ3Rtg	1.0000
Rated Cos Phi PFMinQ4Rtg	0.0000
Rated apparent power VAMaxOutRtg	6,000 VA
Rated apparent power VAMaxInRtg	6,000 VA

➤ Type Label ()

➤ Device ()

➤ User Rights ()

▼ DC Side ()

## ▼ System ()

Type of additional DC sources

AC sources and DC charge controllers



## ▼ AC Side ()

## ▼ Inverter ()

Phase assignment	Phase L1		
Nominal Cos Phi PFMInQ1	0.0000		<b>i</b>
Nominal Cos Phi PFMInQ2	1.0000		<b>i</b>
Nominal Cos Phi PFMInQ3	1.0000		<b>i</b>
Nominal Cos Phi PFMInQ4	0.0000		<b>i</b>
Maximum active power export	6000	W	<b>i</b>
Nominal active power WMaxIn	-6000	W	<b>i</b>
Nominal active power WMinOut	0	W	<b>i</b>
Nominal active power WMinIn	0	W	<b>i</b>
Nominal apparent power VAMaxOut	6000	VA	<b>i</b>
Nominal apparent power VAMaxIn	6000	VA	<b>i</b>
Nominal reactive power VArMaxQ1	6000	var	<b>i</b>
Nominal reactive power VArMaxQ2	0	var	<b>i</b>
Nominal reactive power VArMaxQ3	0	var	<b>i</b>
Nominal reactive power VArMaxQ4	-6000	var	<b>i</b>
Nominal reactive power VArMaxZerWQ1	0	var	<b>i</b>

Nominal reactive power VArMaxZerWQ2

0

var



Nominal reactive power VArMaxZerWQ3

0

var



Nominal reactive power VArMaxZerWQ4

0

var



#### ▼ PV system control ()

Nominal system voltage

230 V



Applicable voltages

Phase voltage



#### ▼ Cluster ()

Phase assignment device 1



Phase assignment device 2



#### ▼ Measured values ()

#### ▼ Grid measurements ()

Set offset of the supplied energy

-70

kWh



Set offset of the absorbed energy

-27467

kWh



Selection of mains exchange capacity measurement method

SMA Energy Meter



#### ▼ Operation ()

External sources

Mains



Grounding type

TT grid



Automatic frequency control

Off



Current control mode

On



## ▼ System ()

Type of AC distribution

-----



## ▼ Public electricity mains ()

Manual control



Maximum current of the ext. network interface

26.500

A



Feed-in permitted

Yes



## ▼ Power monitoring ()

Maximum reverse power

100

W



Maximum reverse power tripping time

0

min

10

s



## ▼ Network request via battery state of charge ()

Activated

No



Switch-on limit

40

%



Switch-off limit

80

%



## ▼ Additional time range ()

Switch-on limit

40

%



Switch-off limit


80

%





End time	<input type="text" value="00:00:00"/>	
Start time	<input type="text" value="00:00:00"/>	

#### ▼ Network request via charge type ()

Charge type	<input type="text" value="Equalization charge"/>	
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#### ▼ Network request via power ()

Activated	<input type="text" value="No"/>	
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Switch-on power	<input type="text" value="4000"/>	<input type="text" value="W"/>	
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Switch-off power	<input type="text" value="2000"/>	<input type="text" value="W"/>	
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#### ▼ Measurements of external power connection ()

Cut-off time until shutdown	<input type="text" value="0"/>	<input type="text" value="h"/>	<input type="text" value="20"/>	<input type="text" value="min"/>	<input type="text" value="0"/>	<input type="text" value="s"/>	
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#### ▼ Energy saving mode ()

Activated	<input type="text" value="No"/>	
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Time until change-over to energy saving mode	<input type="text" value="0"/>	<input type="text" value="d"/>	<input type="text" value="3"/>	<input type="text" value="h"/>	
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Maximum duration of energy saving mode	<input type="text" value="0"/>	<input type="text" value="d"/>	<input type="text" value="12"/>	<input type="text" value="h"/>	
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#### ▼ External network ()




Start feed-in	04:00:00	
Stop feed-in	23:00:00	

## ▼ Grid Monitoring ()














### ▼ Grid monitoring ()

Country standard	[DE] VDE-AR-N4105:2018 storage >4,6 kVA	
Set country standard	-----	
Underlying country standard	[DE] VDE-AR-N4105:2018 storage >4,6 kVA	

### ▼ Country standard ()

Anti-islanding sensitivity	Normal	
Reconnection time after grid fault	1.00 min	
Nominal frequency	50.00 Hz	

### ▼ Frequency monitoring ()

Upper maximum threshold	66.00 Hz	
Upper maximum threshold tripping time	30,000 ms	
Median maximum threshold	60.00 Hz	
Median maximum threshold tripping time	30,000 ms	
Lower maximum threshold	51.50 Hz	
Lower maximum threshold tripping time	100 ms	
Upper minimum threshold	47.50 Hz	
Upper minimum threshold tripping time	100 ms	
Median minimum threshold	44.00 Hz	
Median minimum threshold tripping time	30,000 ms	
Lower minimum threshold	44.00 Hz	
Lower minimum threshold tripping time	30,000 ms	
Minimum switching frequency	47.50 Hz	

Maximum switching frequency	50.10 Hz	
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Voltage monitoring ()

Enable voltage increase protection	Yes	
Upper maximum threshold	1.300 p.u.	
Median maximum threshold	1.300 p.u.	
Lower maximum threshold	1.250 p.u.	
Upper minimum threshold	<div>0.800</div> <div>p.u.</div>	
Median minimum threshold	0.450 p.u.	
Lower minimum threshold	0.300 p.u.	
Upper maximum threshold tripping time	30,000 ms	
Volt. increase prot.	1.100 p.u.	
Max. voltage for reconnection	1.100 p.u.	
Min. voltage for reconnection	0.850 p.u.	
Median maximum threshold tripping time	30,000 ms	
Lower maximum threshold tripping time	100 ms	
Upper minimum threshold tripping time	3,000 ms	
Median minimum threshold tripping time	300 ms	
Lower minimum threshold tripping time	30,000 ms	

Generator ()

Operation ()

Nominal frequency	<div>50.00</div> <div>Hz</div>	
Min. operating time	<div>0</div> <div>h</div> <div>0</div> <div>min</div> <div>0</div> <div>s</div>	
Min. idle period	<div>0</div> <div>h</div> <div>0</div> <div>min</div> <div>0</div> <div>s</div>	

Cooling time

0

h

0

min

0

s



Idle period after fault

0

d

0

h

min

0

s



Warm-up time

1

min

0

s



Type of current limitation

Fixed limit value for current limitation



Sensitivity of generator failure detection

Normal



Reactive power compensation

On



### ▼ Generator ()

Automatic start

Off



Manual control



Nominal current

0.000

A



Request

Manual generator control



Current control mode

No



### ▼ Frequency monitoring ()

Lower minimum threshold

44.64

Hz



Upper maximum threshold

60.00

Hz



Hysteresis minimum threshold

0.02

Hz



Hysteresis maximum threshold

0.02

Hz



### ▼ Operation ()



Acknowledge fault



### ▼ Voltage monitoring ()

Lower minimum threshold

172.50

V



Upper maximum threshold

250.00

V



Hysteresis minimum threshold

2.00

V



Hysteresis maximum threshold

2.00

V



### ▼ Power monitoring ()

Maximum reverse power

100

W



Maximum reverse power tripping time

0

min

30

s



### ▼ Generator queries state of charge ()

Switch-on limit

40

%



Switch-off limit

80

%



### ▼ Additional time range ()

Switch-on limit

40

%



Switch-off limit

80

%



Start time

00:00:00



End time

00:00:00



### ▼ Generator request via power ()

Activated	<div>No</div>				
Switch-off power	<div>2000</div>	<div>W</div>		<div>i</div>	
Switch-on power	<div>4000</div>	<div>W</div>		<div>i</div>	
Average time	<div>1</div>	<div>min</div>	<div>0</div>	<div>s</div>	<div>i</div>

### ▼ Generator request via charge type ()

Charge type	<div>Off</div>
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### ▼ Generator request via digital input ()

Reaction to digital input	<div>Off</div>
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### ▼ Time-controlled generator operation ()

Activated	<div>No</div>								
Start time	<div>Jan 1, 2011 12:00:00 AM</div>			<div>i</div>					
Operating time	<div>0</div>	<div>d</div>	<div>0</div>	<div>h</div>	<div></div>	<div>min</div>	<div>0</div>	<div>s</div>	<div>i</div>
Repeat cycle	<div>Once</div>								

### ▼ Battery ()

### ▼ Battery ()

Rated capacity	36,480 Wh		
Nominal capacity	760	Ah	<b>i</b>
Type	Lithium-Ion (Li-Ion) ▾		
Nominal voltage	48 V		
Current sensor type (60mV 50mV)	----- ▾		
Current sensor gain	100	A	<b>i</b>
Maximum temperature	40.0	°C	<b>i</b>
Switch-on limit after overtemperature shutdown	35.0	°C	<b>i</b>
Output resistance DC connection	0.000	Ohm	<b>i</b>

#### ▼ Operation ()

Manual equalization charge












#### ▼ Calibration ()

Battery current sensor



#### ▼ Charge ()

Maximum charging current	<div><div>300.000</div><div>A</div></div>	<div><div><div></div><div>i</div></div></div>
Time for boost charge	<div><div><div>0</div><div>h</div></div><div><div>0</div><div>min</div></div></div>	<div><div><div></div><div>i</div></div></div>
Time for equalization charge	<div><div><div>0</div><div>d</div></div><div><div>0</div><div>h</div></div></div>	<div><div><div></div><div>i</div></div></div>
Time for full charge	<div><div><div>0</div><div>h</div></div></div>	<div><div><div></div><div>i</div></div></div>
Discharge cut-off voltage	<div><div>35.00</div><div>V</div></div>	<div><div><div></div><div>i</div></div></div>

Maximum discharge current	<input type="text" value="0.000"/>	<input type="text" value="A"/>	
Cell charge nominal voltage for boost charge	<input type="text" value="0.00"/>	<input type="text" value="V"/>	
Cell charge nominal voltage for full charging	<input type="text" value="0.00"/>	<input type="text" value="V"/>	
Cell charge nominal voltage for equalization charge	<input type="text" value="0.00"/>	<input type="text" value="V"/>	
Cell charge nominal voltage for float charge	<input type="text" value="0.00"/>	<input type="text" value="V"/>	
Cycle time full charge	<input type="text" value="14"/>	<input type="text" value="d"/>	
Cycle time equalization charge	<input type="text" value="90"/>	<input type="text" value="d"/>	
Temperature compensation	<input type="text" value="0.000"/>	<input type="text" value="V/°C"/>	
Automatic equalization charge	<input type="text" value="On"/>	<input type="text" value="▼"/>	
Voltage setpoint with deactivated BMS	<input type="text" value="54.00"/>	<input type="text" value="V"/>	

▼ Battery switch ()

Max. charge capacity	6,000 W
Max. discharge capacity	6,000 W








▼ Battery charge ()

Process specification battery charge current	115.0 A
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▼ Battery discharge ()

Process specification battery discharge current	130.0 A
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▼ Areas of application ()

Lower lmt deep disch. protect area prior shutdown	3	%	
Minimum width of deep discharge protection area	2	%	
Minimum width of backup power area	0	%	
Area width for conserving battery state of charge	5	%	
Minimum width of own consumption area	70	%	
Most profitable month	June profitable 		
Season operation active	Yes 		

#### ▼ Protection mode ()

Start time [A]	22:00:00	
Start time [B]	17:00:00	
End time [A]	06:00:00	
End time [B]	09:00:00	
Limit of battery state of charge [A]	20.0	% 
Limit of battery state of charge [B]	15.0	% 
Limit of battery state of charge [C]	10.0	% 

#### ▼ System communication ()

#### ▼ Measured values ()

#### ▼ Meter on Speedwire ()

Serial Number

3004906509



Serial numbers for usable meters [A]	3004906509
Serial numbers for usable meters [B]	-----
Serial numbers for usable meters [C]	-----

#### ▼ Device update ()

Operating mode

Time-controlled



Time of the automatic update

05:00:00



#### ▼ Grid system services ()

Devices found [A]	1992125695
Devices found [B]	3003920919
Devices found [C]	
Devices found [D]	
Devices found [E]	
Devices found [F]	
Devices found [G]	
Devices found [H]	
Devices found [I]	
Devices found [J]	

#### ➤ Speedwire ()

#### ➤ WLAN ()

#### ▼ External Communication ()

#### ▼ Modbus ()

#### ➤ TCP server ()

#### ➤ UDP server ()

➤ Webconnect ()

▼ Multi-cluster ()

Activation of communication test



▼ CAN ()

Battery and control interface

On



▼ Device Components ()

▼ Type Label ()

➤ Main processor ()

➤ Communication assembly ()

▼ Logic component ()

Software version

1.7.3.R

▼ WLAN component ()

Software version

1.0.0.R

▼ System and device control ()

▼ Grid monitoring ()

Design of the generation plant

Symmetric



### ▼ Inverter ()

Power gradient for reconnection after grid fault

10 %/min



Soft start-up P after grid fault

On



Soft start-up rate P

1,200 %/min



### ▼ Reactive power mode ()

Reference size for reactive power setting

Maximum active power WMax



Hysteresis active power

0

W



Hysteresis time

0.00

s



Reactive power mode in case of active power output

Q(U) characteristic curve



Reactive power mode in case of active power draw

Off



Reactive power mode in case of zero power output

Off



Fallback behavior in case of active power output

Maintain procedure



Fallback behavior in case of active power draw

Maintain procedure



Fallback behavior in case of zero power output

Maintain procedure



### ▼ Q(U) characteristic curve ()

#### ▼ Characteristic ()

X value [A]

0.930 p.u.



X value [B]

0.970 p.u.



X value [C]

1.030 p.u.



X value [D]

1.070 p.u.




X value [E]


1.000 p.u.











X value [F]	1.000 p.u.	
X value [G]	1.000 p.u.	
X value [H]	1.000 p.u.	
Y value [A]	43.600 %	
Y value [B]	0.000 %	
Y value [C]	0.000 %	
Y value [D]	-43.600 %	
Y value [E]	0.000 %	
Y value [F]	0.000 %	
Y value [G]	0.000 %	
Y value [H]	0.000 %	
Number of support points to be used	4	

#### ▼ Reference voltage adjustment ()


Operating mode	Off	
Setting time for automatic mode	5.00 min	

#### ▼ Dynamics ()

Setting time for nominal value filter	10 s	
Nominal value filter	On	
Limitation of change rate	Off	
Increase rate	100.00 %/s	
Decrease rate	100.00 %/s	
Tripping delay	0 s	

#### ▼ Q(P) characteristic curve ()

#### ▼ Characteristic ()

Max. number of support points	8	
Number of support points to be used	4	

X value [A]	50.000 %	🔒
X value [B]	60.000 %	🔒
X value [C]	90.000 %	🔒
X value [D]	100.000 %	🔒
X value [E]	100.000 %	🔒
X value [F]	100.000 %	🔒
X value [G]	100.000 %	🔒
X value [H]	100.000 %	🔒
Y value [A]	0.000 %	🔒
Y value [B]	-5.000 %	🔒
Y value [C]	-33.000 %	🔒
Y value [D]	-33.000 %	🔒
Y value [E]	-33.000 %	🔒
Y value [F]	-33.000 %	🔒
Y value [G]	-33.000 %	🔒
Y value [H]	-33.000 %	🔒

#### ▼ Dynamics ()

Tripping delay	0 s	🔒
Nominal value filter	On	🔒
Setting time for nominal value filter	10.00 s	🔒
Limitation of change rate	Off	🔒
Increase rate	100.00 %/s	🔒
Decrease rate	100.00 %/s	🔒

#### ▼ Trigger ()

Upper deactivation voltage	0.00 p.u.	🔒
Upper activation voltage	0.00 p.u.	🔒

#### ▼ Manual Cos Phi specification ()

Cos Phi nominal value in case of active power output	1.0000	🔒
Excitation type in case of active power output	Underexcited	🔒
Cos Phi nominal value in case of active power draw	1.0000	🔒
Excitation type in case of active power draw	Underexcited	🔒



#### ▼ Cos Phi(P) charac. curve ()

#### ▼ Characteristic ()



Number of support points to be used	2	🔒
Excitation type [A]	Underexcited	🔒
Excitation type [B]	Underexcited	🔒
Excitation type [C]	Underexcited	🔒
Excitation type [D]	Underexcited	🔒
cosPhi specification [A]	1.0000	🔒
cosPhi specification [B]	0.9000	🔒
cosPhi specification [C]	0.9000	🔒
cosPhi specification [D]	0.9000	🔒
Power per phase [A]	50 %	🔒
Power per phase [B]	100 %	🔒
Power per phase [C]	100 %	🔒
Power per phase [D]	100 %	🔒

#### ▼ Dynamics ()


Tripping delay	0 s	🔒
Actual value filter for active power value	Off	🔒
Setting time actual value filter	1.50 s	🔒
Nominal value filter	On	🔒
Setting time for nominal value filter	10.00 s	🔒
Limitation of change rate	Off	🔒

Increase rate	1,200.00 %/s	
Decrease rate	1,200.00 %/s	

#### ▼ Trigger ()

Upper deactivation voltage	0.00 p.u.	
Upper activation voltage	0.00 p.u.	

#### ▼ Manual reactive power setting for active power output ()

Reactive power	0 var	
Reactive power	100.0 %	

#### ▼ Manual reactive power setpoint for zero power output ()

Reactive power	0 var	
Reactive power	100.0 %	

#### ▼ Dynamics of power factor control ()

#### ▼ Dynamics ()

Actual value filter for active power value	Off	
Setting time actual value filter	1.50 s	
Nominal value filter	On	
Setting time for nominal value filter	10.00 s	
Limitation of change rate	Off	
Increase rate	1,200.00 %/s	
Decrease rate	1,200.00 %/s	

#### ▼ Dynamics of the reactive power setpoint specifications ()

### ▼ Characteristic ()

Activation of the characteristic curve	Off	🔒
X value [A]	0.94 p.u.	🔒
X value [B]	0.96 p.u.	🔒
X value [C]	1.04 p.u.	🔒
X value [D]	1.06 p.u.	🔒
Y value [A]	33.00 %	🔒
Y value [B]	0.00 %	🔒
Y value [C]	0.00 %	🔒
Y value [D]	-33.00 %	🔒

### ▼ Dynamics ()

Nominal value filter	On	🔒
Setting time for nominal value filter	10.00 s	🔒
Limitation of change rate	Off	🔒
Increase rate	1,200.00 %/s	🔒
Decrease rate	1,200.00 %/s	🔒

### ▼ Manual reactive power setting in case of active power draw ()

Reactive power	<input type="text" value="100.0"/>	<input type="text" value="%"/>	📘
Reactive power	<input type="text" value="0"/>	<input type="text" value="var"/>	📘

### ▼ Active power mode ()

Grid disconnection for 0% active power setting	<input type="text" value=""/>	
Operating mode active power setting	External setting	🔒

### ▼ External setting ()

### ▼ Dynamics ()

Setting time for nominal value filter	3.00 s	🔒
Limitation of change rate	On	🔒
Increase rate	0.50 %/s	🔒
Decrease rate	0.50 %/s	🔒
Nominal value filter	Off	🔒

### ▼ Voltage-dependent reactive power adjustment P(U) ()

Activation	Off	🔒
Nominal value filter	On	🔒
Setting time for nominal value filter	3.00 s	🔒
Limitation of change rate	Off	🔒
Increase rate	20.00 %/s	🔒
Decrease rate	20.00 %/s	🔒
Tripping delay	0 s	🔒
Phase reference of grid nominal voltage	Mean value of phase voltages	🔒
Type of reference voltage	Maximum active power WMax	🔒

### ▼ Characteristic ()

Max. number of support points	8	
Number of support points to be used	2	🔒
X value [A]	1.100 p.u.	🔒
X value [B]	1.120 p.u.	🔒
X value [C]	2.000 p.u.	🔒
X value [D]	2.000 p.u.	🔒
X value [E]	2.000 p.u.	🔒
X value [F]	2.000 p.u.	🔒
X value [G]	2.000 p.u.	🔒
X value [H]	2.000 p.u.	🔒
Y value [A]	100.000 %	🔒

Y value [B]	0.000 %	🔒
Y value [C]	0.000 %	🔒
Y value [D]	0.000 %	🔒
Y value [E]	0.000 %	🔒
Y value [F]	0.000 %	🔒
Y value [G]	0.000 %	🔒
Y value [H]	0.000 %	🔒

#### ▼ Frequency-dependent active power adapt. P(f) ()

Reference value for active power in case of underfrequency	Maximum active power export	🔒
Activation	On	🔒
Reference value for active power in case of overfrequency	Maximum active power export	🔒
Setting time for nominal value filter	0.50 s	🔒

#### ▼ P(f) characteristic curve ()

Active power change rate after fault end	10 %/min	🔒
Lag time	0 s	🔒
Tripping delay	0 ms	🔒
Hysteresis in case of overfrequency	Off	🔒
Hysteresis in case of underfrequency	Off	🔒
Buckling overfrequency [A]	50.200 Hz	🔒
Buckling overfrequency [B]	66.000 Hz	🔒
Buckling overfrequency [C]	66.000 Hz	🔒
Active power change per Hz in case of overfrequency [A]	-40.000 %	🔒
Active power change per Hz in case of overfrequency [B]	-40.000 %	🔒
Active power change per Hz in case of overfrequency [C]	-40.000 %	🔒
Buckling underfrequency [A]	49.800 Hz	🔒
Buckling underfrequency [B]	44.000 Hz	🔒

Buckling underfrequency [C]	44.000 Hz	
Active power change per Hz in case of underfrequency [A]	-100.000 %	
Active power change per Hz in case of underfrequency [B]	-40.000 %	
Active power change per Hz in case of underfrequency [C]	-40.000 %	
Reset overfrequency	50.200 Hz	
Reset underfrequency	49.800 Hz	

### ▼ Dynamic grid support ()

Operating mode of dynamic grid support	Limited dynamic grid support	
Long-term averaging time of the pre-fault voltage	1.00 min	
Averaging for threshold detection	Nominal system voltage	
Overvoltage threshold for zero current	1.15 p.u.	
Undervoltage threshold for zero current	0.80 p.u.	
Hysteresis voltage	0.05 p.u.	

### ▼ System control and fallback behavior ()

Source of ref. meas. for reactive/active power reduction

Inverter

Phased reactive/act. power specification

### ▼ Q, external setting ()

Fallback behavior

Apply fallback values

Timeout

0

min

3

s



Fallback value of reactive power setting



0.00

%






### ▼ Cos Phi, external setting ()

Fallback behavior	Apply fallback values				
Timeout	5	min	0	s	
Fallback value of Cos Phi in case of active power output	1.0000				
Fallback value of excitation type in case of active power output	Underexcited				





### ▼ External setting ()

Fallback behavior	Apply fallback values				
Timeout	5	min	0	s	
Fallback value of maximum active power	6000.00			W	

### ▼ External reference voltage setting ()

Fallback of reference voltage	1.00 p.u.	
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### ▼ Grid connection point ()

Load unbalance limit	On	
Max. asymmetric load	4,600 W	
Operating mode of active power limitation	Fixed specification in Watt	
Currently set active power limit	0	W 
Set active power limit	100	% 

### ▼ Self-consumption ()

Mains exch. capac. target value

0

W



▼ Areas of application ()

Upper state of charge for reactivating feed-in

70

%



Lower state of charge for locking feed-in

60

%



▼ Grid connection ()

▼ PV system ()

Nominal power

3500

W



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Serial number: 3007690909  
Firmware version: 3.1.4.R  
Ethernet IP address: 192.168.1.180

User group: Installer  
Date: 7/9/20 5:13 PM