

Huawei Solar Product Training

HUAWEI TECHNOLOGIES CO., LTD.



Contents

- Overview of the Product Range
- Huawei Solar Inverter Technical Information
- Huawei Smartlogger Technical Information
- NetECO Portal Brief Overview




Huawei Inverter Family

Full Range of Huawei Inverter Products


New

On-Grid Solution


SUN2000
@400V




8/12kTL



17/20/23kTL




33kTL




36kTL

SUN2000
@480V MV




28kTL




42kTL


Smart Logger
& NetEco




Smart Logger




iManager




APP



Small Commercial PV System




Large Commercial PV Plants



Utility PV Plant

HUAWEI TECHNOLOGIES CO., LTD.

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Recommended Design Specification:

PV Module Type	Max. number of Modules per String at Different Minimum Ambient Temperature				
	-25 ℃	-20 ℃	-10 ℃	-5 ℃	0 ℃
250 Wp (Poly,60cells)	22	23	23	23	24
255 Wp (Poly,60cells)	22	23	23	23	24
260 Wp (Poly,60cells)	22	23	23	23	24
265 Wp (Poly,60cells)	22	22	23	23	24
270 Wp (Poly,72cells)	22	23	23	23	24

*To insure the modules STC per string does not exceed 1000V.



Recommended Design Specification:

Layout factor about 1.2, commonly in UK/Denmark							
PV Type	SUN2000-8KTL	SUN2000-12KTL	SUN2000-17KTL	SUN2000-20KTL	SUN2000-23KTL	SUN2000-28KTL	SUN2000-33KTL
250 Wp (Poly,60cells)	21 × 2	21 × 3	23 × 4	21 × 5	22 × 5	22 × 6	24 × 6
255 Wp (Poly,60cells)	21 × 2	21 × 3	22 × 4	21 × 5	22 × 5	22 × 6	23 × 6
260 Wp (Poly,60cells)	20 × 2	20 × 3	22 × 4	20 × 5	21 × 5	21 × 6	23 × 6
265 Wp (Poly,60cells)	20 × 2	20 × 3	21 × 4	20 × 5	21 × 5	21 × 6	23 × 6
270 Wp (Poly,60cells)	20 × 2	20 × 3	21 × 4	20 × 5	21 × 5	20 × 6	22 × 6

Layout factor about 1.3, commonly in UK/Denmark							
PV Type	SUN2000-8KTL	SUN2000-12KTL	SUN2000-17KTL	SUN2000-20KTL	SUN2000-23KTL	SUN2000-28KTL	SUN2000-33KTL
250 Wp (Poly,60cells)	23 × 2	23 × 3	19 × 5	19 × 6	20 × 6	23 × 6	/
255 Wp (Poly,60cells)	22 × 2	17 × 4	19 × 5	22 × 5	23 × 5	23 × 6	/
260 Wp (Poly,60cells)	22 × 2	22 × 3	19 × 5	22 × 5	23 × 5	23 × 6	/
265 Wp (Poly,60cells)	22 × 2	22 × 3	23 × 4	18 × 6	19 × 6	23 × 6	/
270 Wp (Poly,60cells)	21 × 2	21 × 3	18 × 5	21 × 5	22 × 5	22 × 6	/

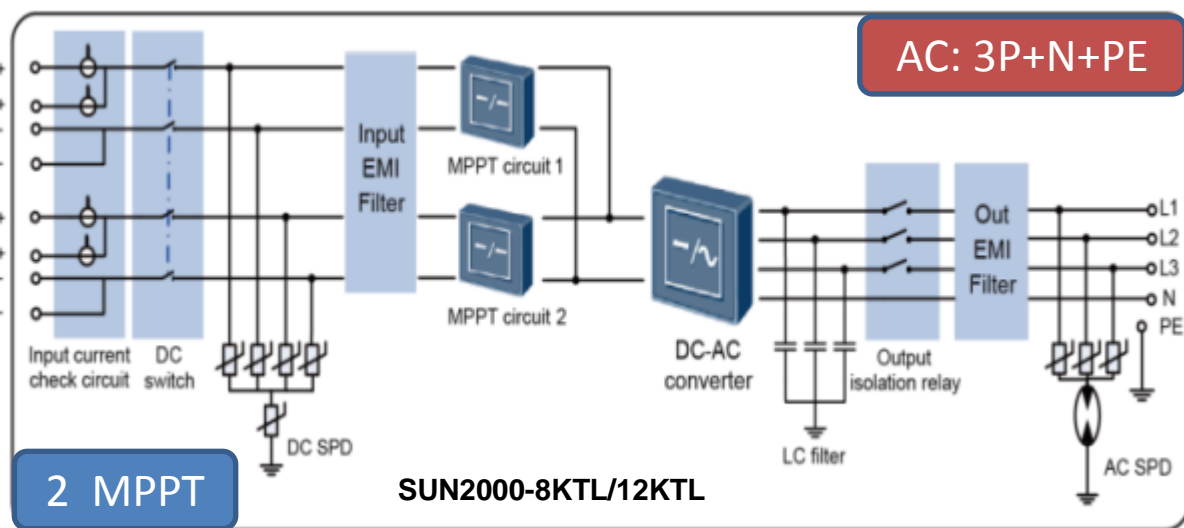


Recommended Fuse Specification:

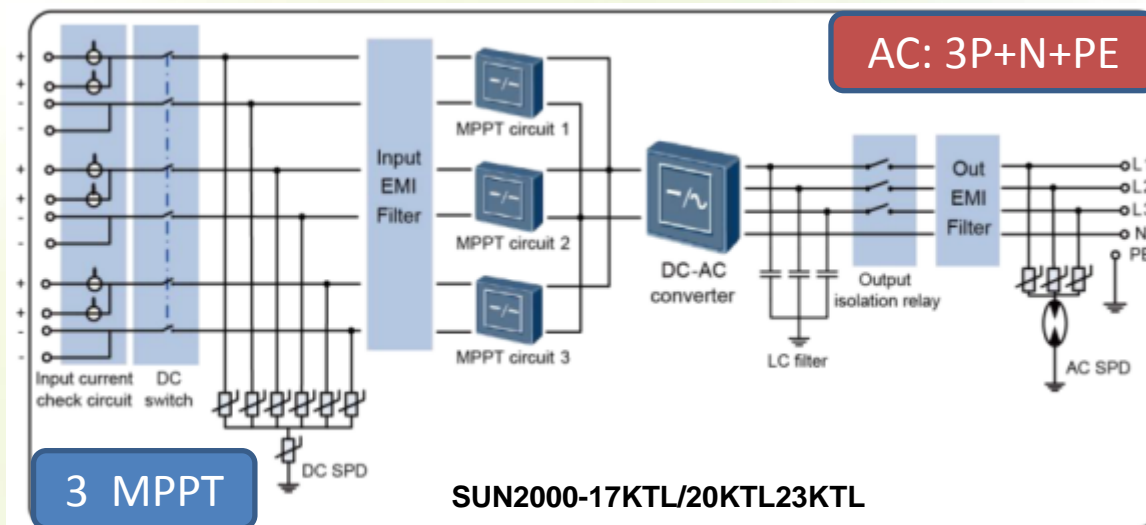
HUAWEI SUN2000	Rated AC Power (KW)	Rated Max AC Power (KW)	Max output Current	Recommended Fuse Spec
8KTL	8	8.8	12.8A	20A
12KTL	12	13.2	19.2A	32A
17KTL	17	18.7	27.2A	40A
20KTL	20	22	32.0A	50A
23KTL	23	23	33.5A	50A
28KTL	27.5	27.5	33.5A	50A
33KTL	30	30	48.0A	63 A



Circuit Diagram

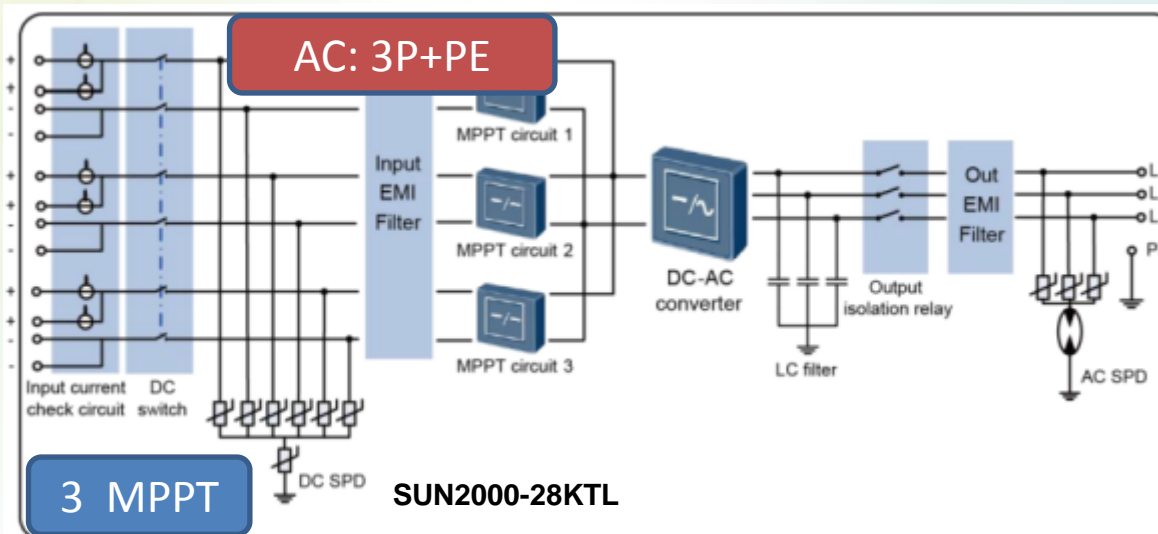


Huawei SUN2000 17, 20, 23 & 33KTL



Huawei SUN2000 8 & 12 KTL

Huawei SUN2000 28KTL & 33KTL
New firmware which will be
available from March 2016



Recommended AC Cable:

Inverter Model	Cable Type	Cross-sectional Area (mm ²)		Cable Outer Diameter (mm)	
		Range	Recommended Value	Range	Recommended Value
SUN2000-33KTL	4-core outdoor cable (L1, L2, L3, and N)	16-25 (6-3 AWG)	16 (6 AWG)	24-32	28

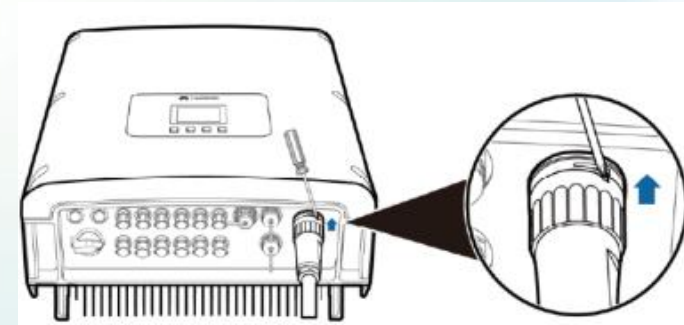
Inverter Model	Cable Type		Cross-sectional Area (mm ²)		External Cable Diameter (mm)	
	Range	Recommended Value	Range	Recommended Value	Range	Recommended Value
SUN2000-8KTL	<ul style="list-style-type: none"> 4-core outdoor cable (3+N) 5-core outdoor cable (3+N+PE) 	4-core outdoor cable (3+N)	4-10 (12AWG-8AWG)	4 (12AWG)	11-20 NOTE <ul style="list-style-type: none"> When the outer cable diameter ranges from 11 mm to 13 mm, add cable clamps. When the outer cable diameter ranges from 16 mm to 20 mm, strip a seal ring from the cable sealing cover interior. When the outer diameter of an armored cable exceeds 20 mm, strip the jacket and armored layer and take waterproof and 	15
SUN2000-10KTL						
SUN2000-12KTL						
SUN2000-15KTL			6-10 (10AWG-8AWG)	6 (10AWG)		
SUN2000-17KTL						
SUN2000-20KTL						
SUN2000-23KTL						
SUN2000-24.5KTL	<ul style="list-style-type: none"> 3-core outdoor 	3-core outdoor cable				
SUN2000-28KTL	<ul style="list-style-type: none"> cable 4-core outdoor cable (3+PE) 				ultraviolet-proof measures on the cable.	

Notes of AC Connector(Amphenol C16/3) Included & Cabling

1. 4/6 mm² flexible wires in common, 10 mm² optional of stranded circular non compacted conductor (class 2 acc. to IEC60228), minimum 7 wires in the conductor.
2. When the outer cable diameter is more than 16mm, strip a seal ring from the cable sealing cover interior.



3. To remove an AC output connector, press the locking plate on the coupling nut using a flat-head screwdriver



4. If PGND cable is already installed with screw at the inverter, PE wire of the AC connector is not necessary. In this case, 3P+N is recommended for SUN2000 8-23KTL, 3P for SUN2000-28KTL.

Notes of DC Connector(Amphenol H4) Included & Cabling

4/6mm²
compatible



Female stamped and formed contacts

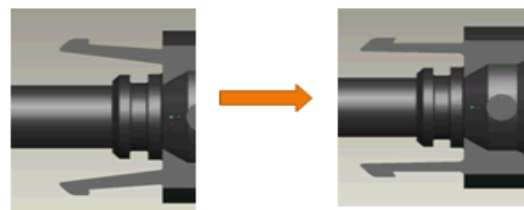
H4CFC5D..S



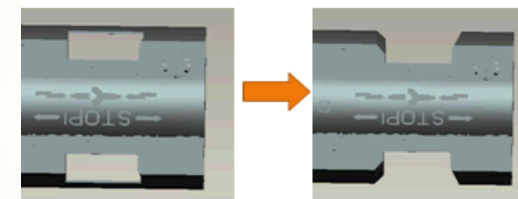
Male stamped and formed contacts

H4CMC5D..S

Improvement
Available now



1.98mm->1.84mm



Essential Tool



Crimp tool

H4TC0001



Strip tool

H4TS0000



WRENCH TOOL DISCONNECT

H4TW0001

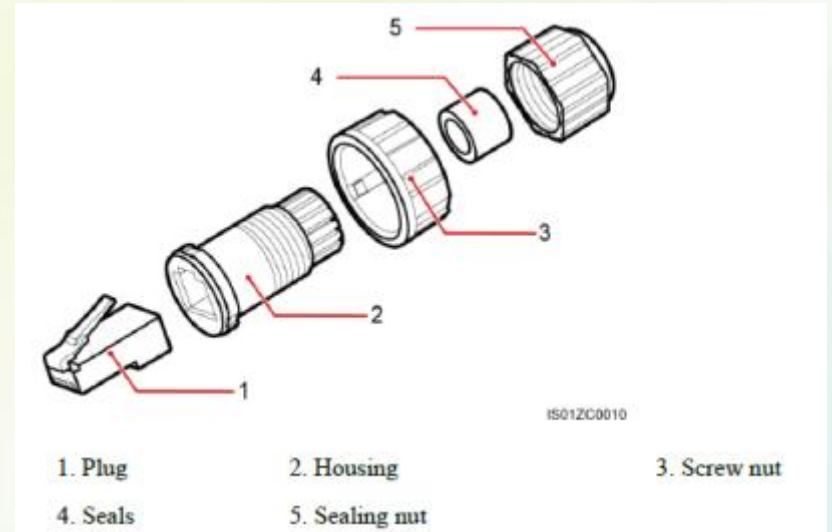


UNIVERSAL TOOL DISCONNECT

H4TU0000

Notes of RJ45 Outdoor Connector Included & Cabling

1. 2 Sets for each inverter, RJ45 plug without load bar
2. 24 AWG outdoor shielded network solid wire cables recommended and external diameter of 4.5 mm to 7.5 mm
3. Alternative choice to buy RJ45 plug with load bar for solid and stranded conductors 24/26AWG



EFB-Elektronik RJ45-CAT6-Crimp-STP-Stecker

High Performance Modular Plugs von TE Tyco Electronics (AMP Netconnect)

Shielded / 8/8 / Round Solid 5-5699550-2 (500/ Box) 5699550-3 (100/ Box) (for solid conductors)

Shielded / 8/8 / Round Solid 5-5699552-2 (500/ Box) 5699552-3 (100/ Box) (for stranded conductors)

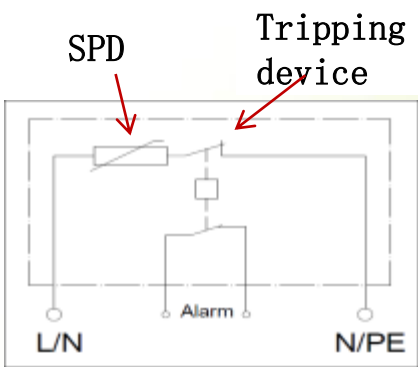
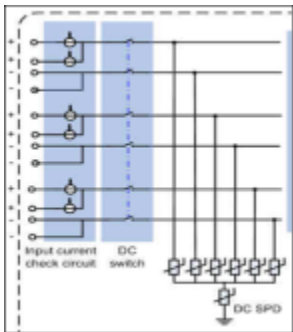
Recommended Outdoor Cable: Etherline FD P BK CAT.5 (CE217489) 4x2x AWG26/19



Surge protection—10kA Class/Type II DC and AC Integrated



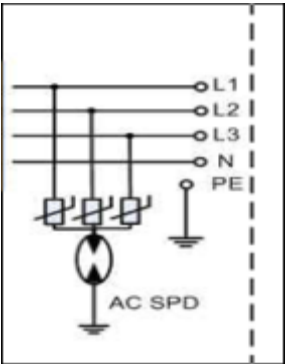
DC side SPD I_n is 10kA



Product model	PV20K510-MH
Supplier	HPXIN
Rated Voltage	230 VAC
Maximum Continuous U_c	510 VAC / 820VDC
Nominal discharge current- I_n	10 kA (8/20 μ s)
Maximum discharge current - I_{max}	20 kA (8/20 μ s)



AC side SPD I_n is 10kA



Product model	PV20K385-MH
Supplier	HPXIN
Rated Voltage	230 VAC
Maximum Continuous U_c	385 VAC / 505VDC
Nominal discharge current- I_n	10kA (8/20 μ s)
Maximum discharge current - I_{max}	20kA (8/20 μ s)

System design recommendation:

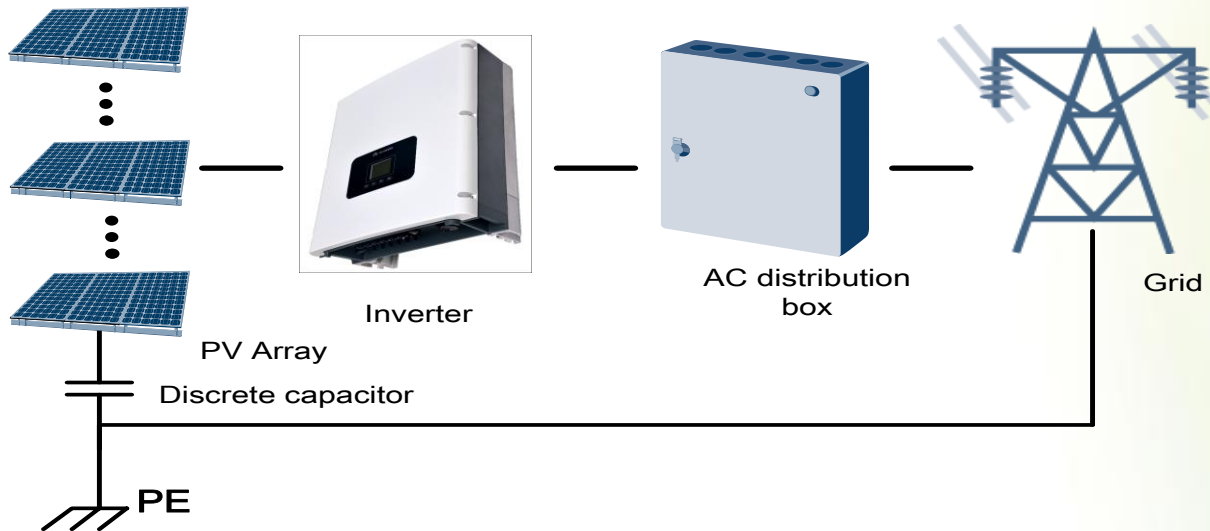
- 1. The SUN2000 inverter reaches level II protection level on the DC side, and is able to handle typical inductive lightning shocks to be faced in PV system. In series with tripping device, when SPD leakage current increase it will be tripped and prevent catching fire .Therefore, no separate SPD component is required on the DC side.
- 2. The SUN2000 inverter reaches level II protection level on the AC side, and is able to handle normal electric surges. However, if the installation site is expected to face frequent thunderstorm weather, and if the AC wiring is very long, it is recommended to add separate higher grade SPD component in the AC combiner box.

Residual Current Protection Integrated in SUN2000 series Inverter for Safety

Residual current: means the current between inverter and the PE(protecting earth).

Safety requirement VDE0126-1-1 defines the residual current value. It is forced requirements for the inverters.

- 30mA definition is to avoid electrical strike to human beings
- 300mA definition is to avoid catching fire in the buildings



4.7.1 Photovoltaics

A residual current monitoring unit (RCMU) is required for inverters without simple separation between the grid and the photovoltaic generator. In the event of a failure, the d.c. and a.c. component of the residual current depend on the type of inverter and the d.c. voltage of the PV generator.

An external residual current device is required in a disconnection device without an integrated RCMU. In this case, the tests defined in 6.6. do not apply. The residual current device required should be specified by the manufacturer in the operating instructions.

The generator-side insulation resistance before the switch to the grid must be $\geq 1 \text{ k}\Omega/\text{V}$ relative to the maximum inverter input voltage, and at least $500 \text{ k}\Omega$. Leakage currents greater than 300 mA must trigger a break within 0.3 s . Irrespective of the rated power of the inverter, any sudden residual currents should trigger a break as in Table 1.

Table 1 - Maximum break times

r.m.s. value of residual current/(mA)	Break time/(s)
30	0.3
60	0.15
150	0.04

Product Appearance- Generation 1



Front

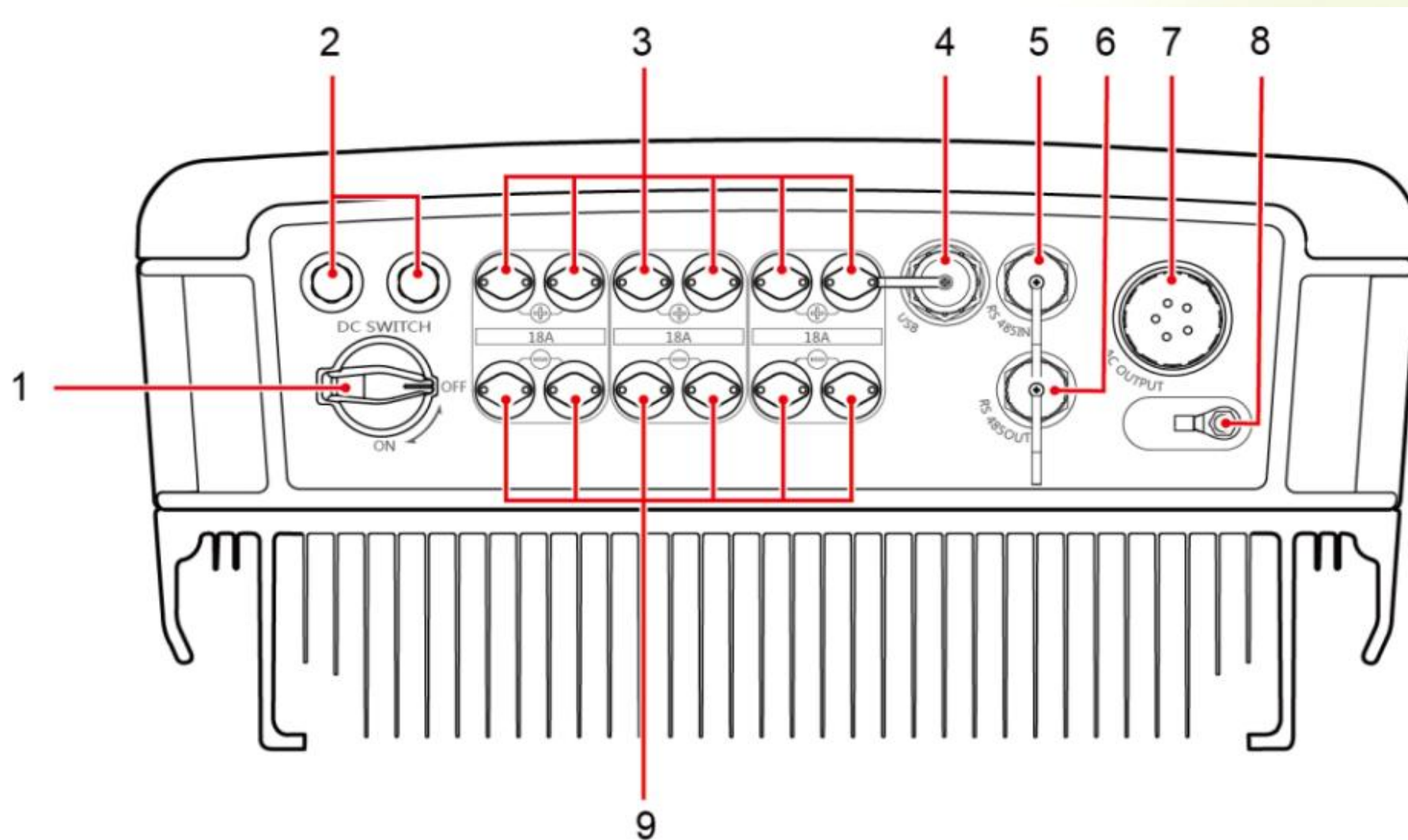


Bottom



Side

Product Appearance- Generation 1

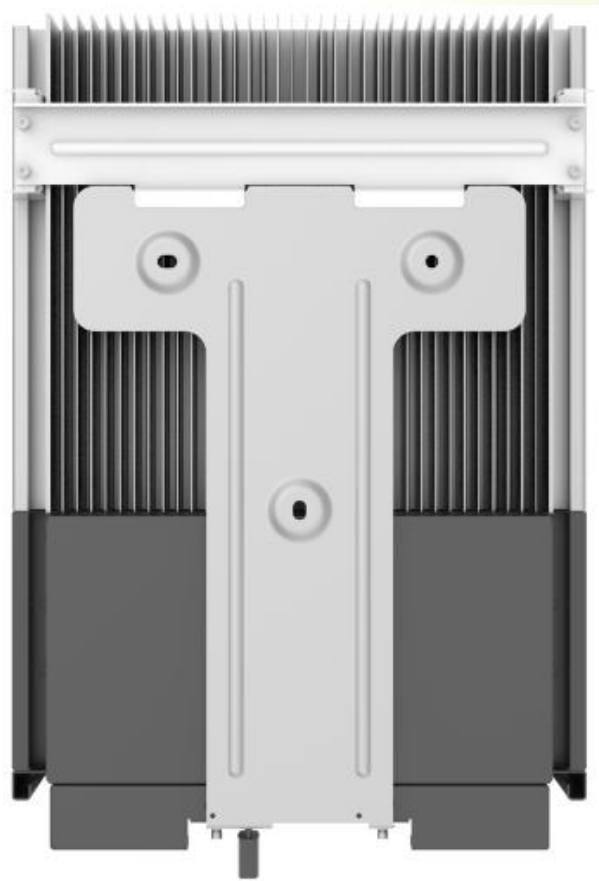


1	DC switch
2	Ventilation valve
3	DC input port (positive)
4	USB port
5	RS 485 IN port
6	RS485 OUT port
7	AC output port
8	Ground bolt
9	DC input port(negative)

Product Appearance- Generation 2



Front

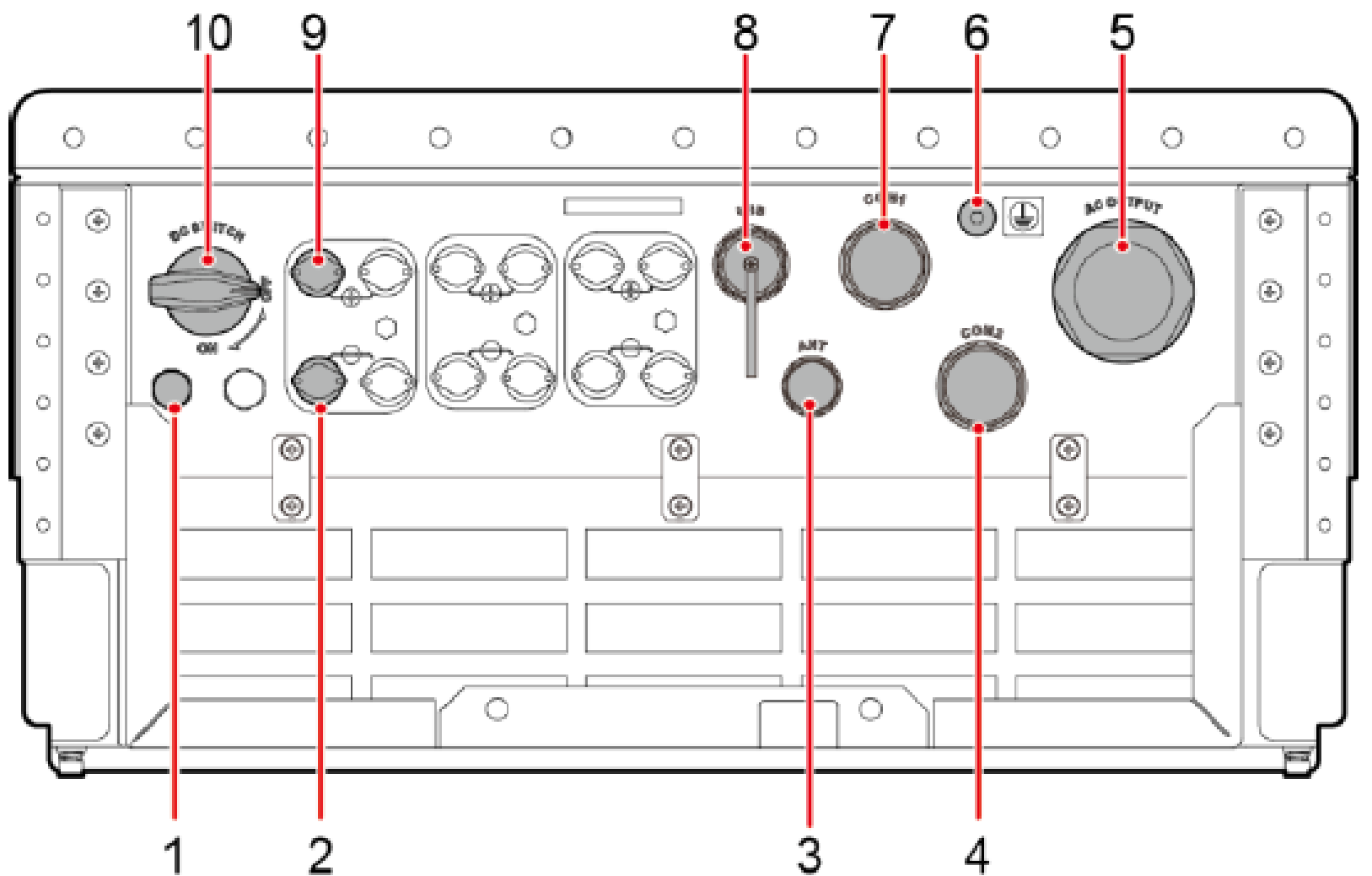


Back



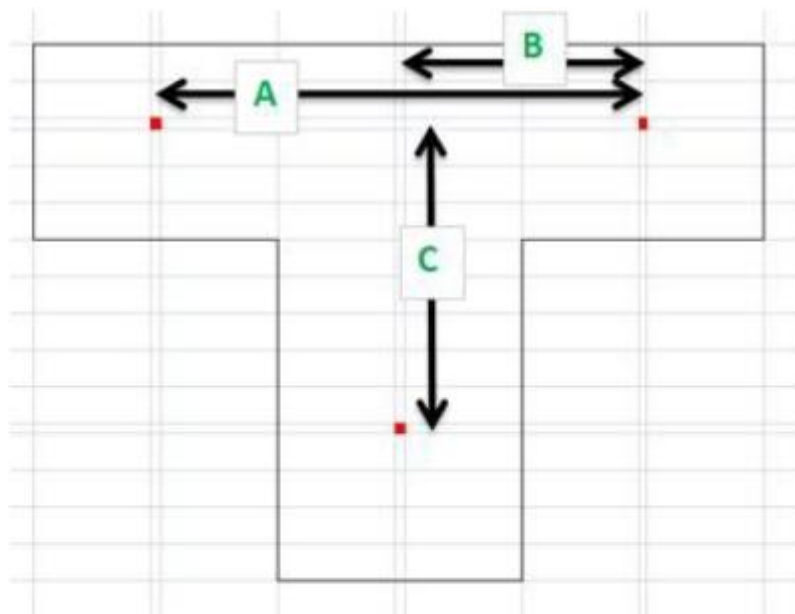
Side

Product Appearance- Generation 2



No.	Component Name (Silk Screen)
1	Vent valve
2	Negative DC input terminal (-)
3	Antenna (ANT)
4	RS485 output port (COM2)
5	AC output port (AC OUTPUT)
6	Protective earthing (PE) bolt
7	RS485 input port (COM1)
8	USB port (USB)
9	Positive DC input terminal (+)
10	DC switch (DC SWITCH)

Recommended Design Specification:



Mounting Bracket mounting holes dimension:

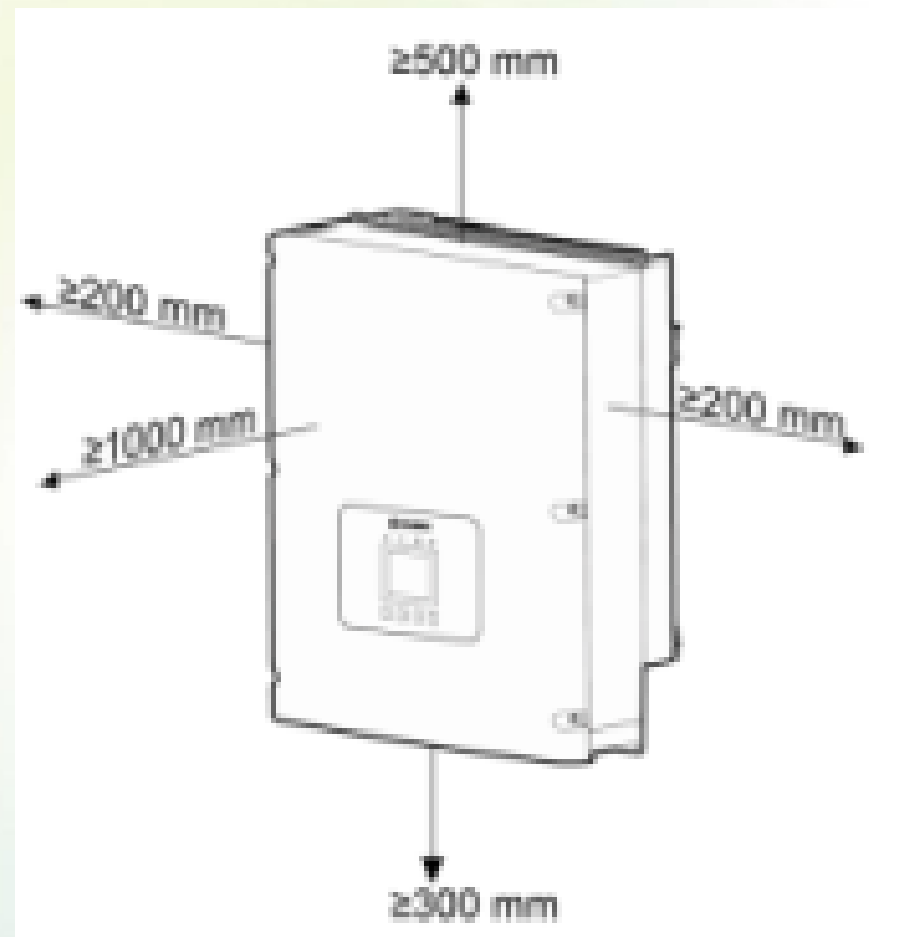
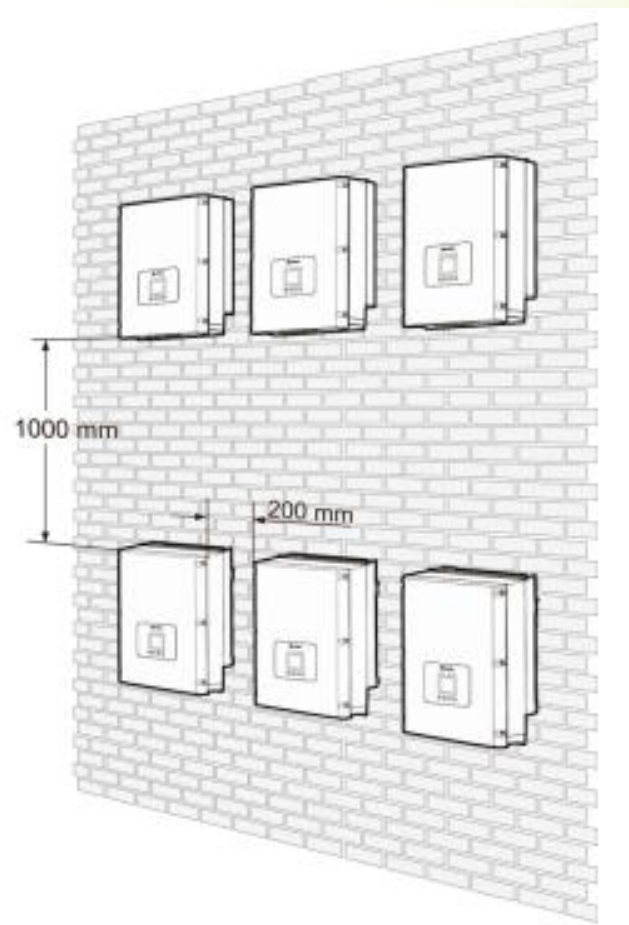
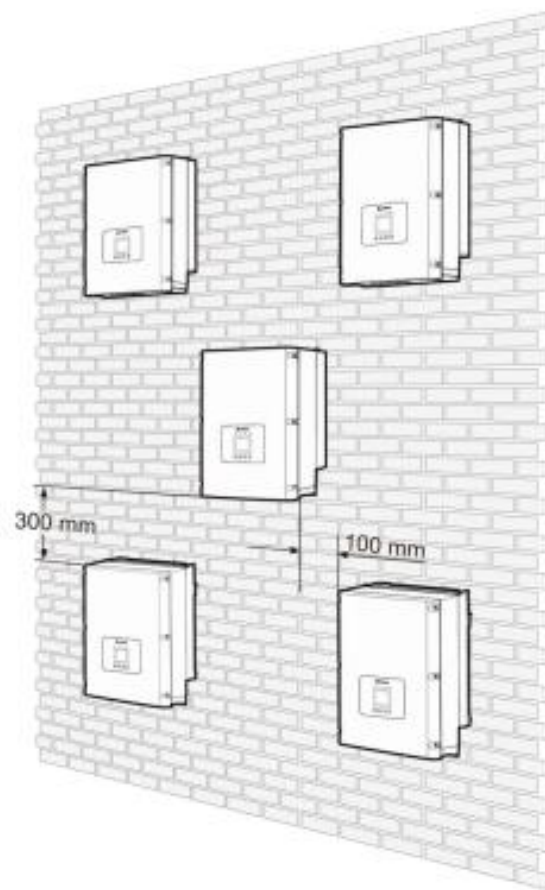
Length A: 237-243mm

Length B: half of above

Length C: 223-229mm



Installation of Sun2000- On the wall (Video)



Installation of Sun2000- On the support



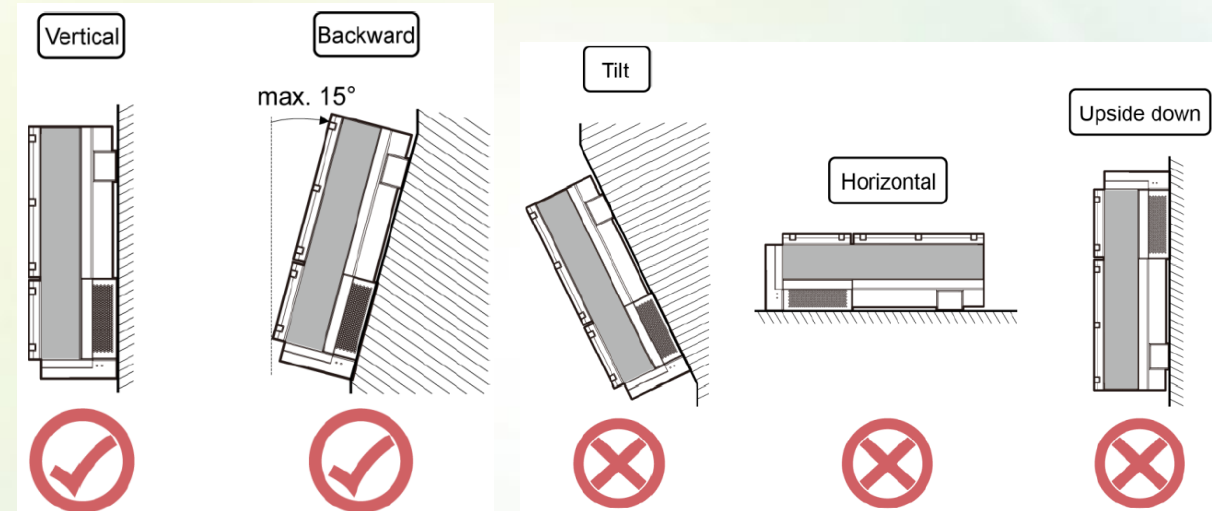
SUN2000 can also be mounted on the support in same steps.

Note: The distance between the inverters can be less than indoor application (10 cm recommended).

Installation Mounting

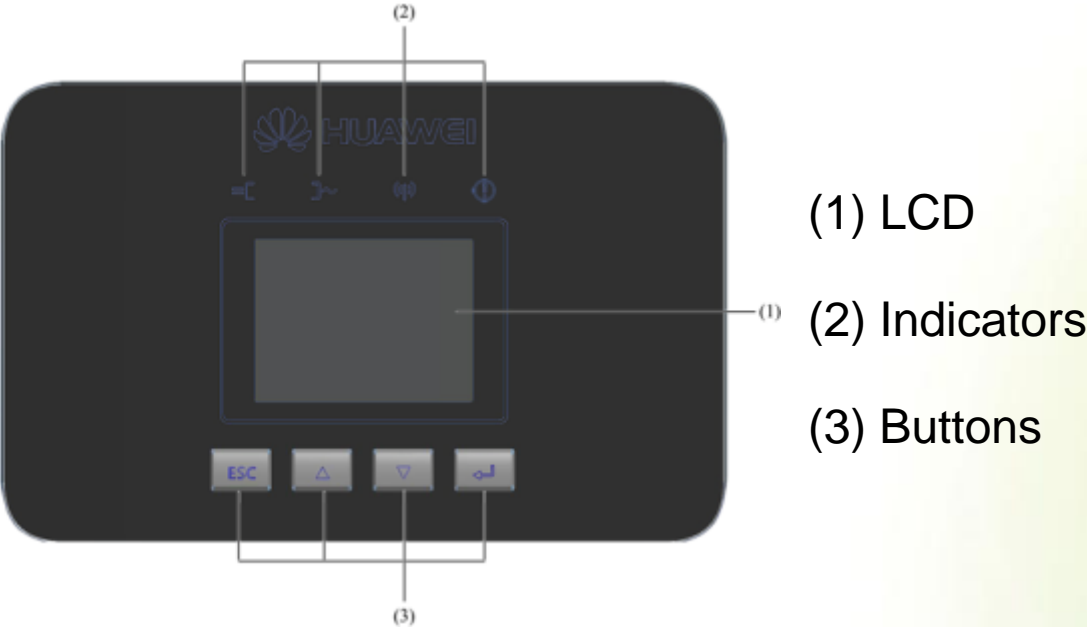


- Install the inverter upright or at a maximum back tilt of 15 degrees to facilitate heat dissipation.







- Do not install the inverter at a front tilt, excessive back tilt, or side tilt, horizontally, or upside down.

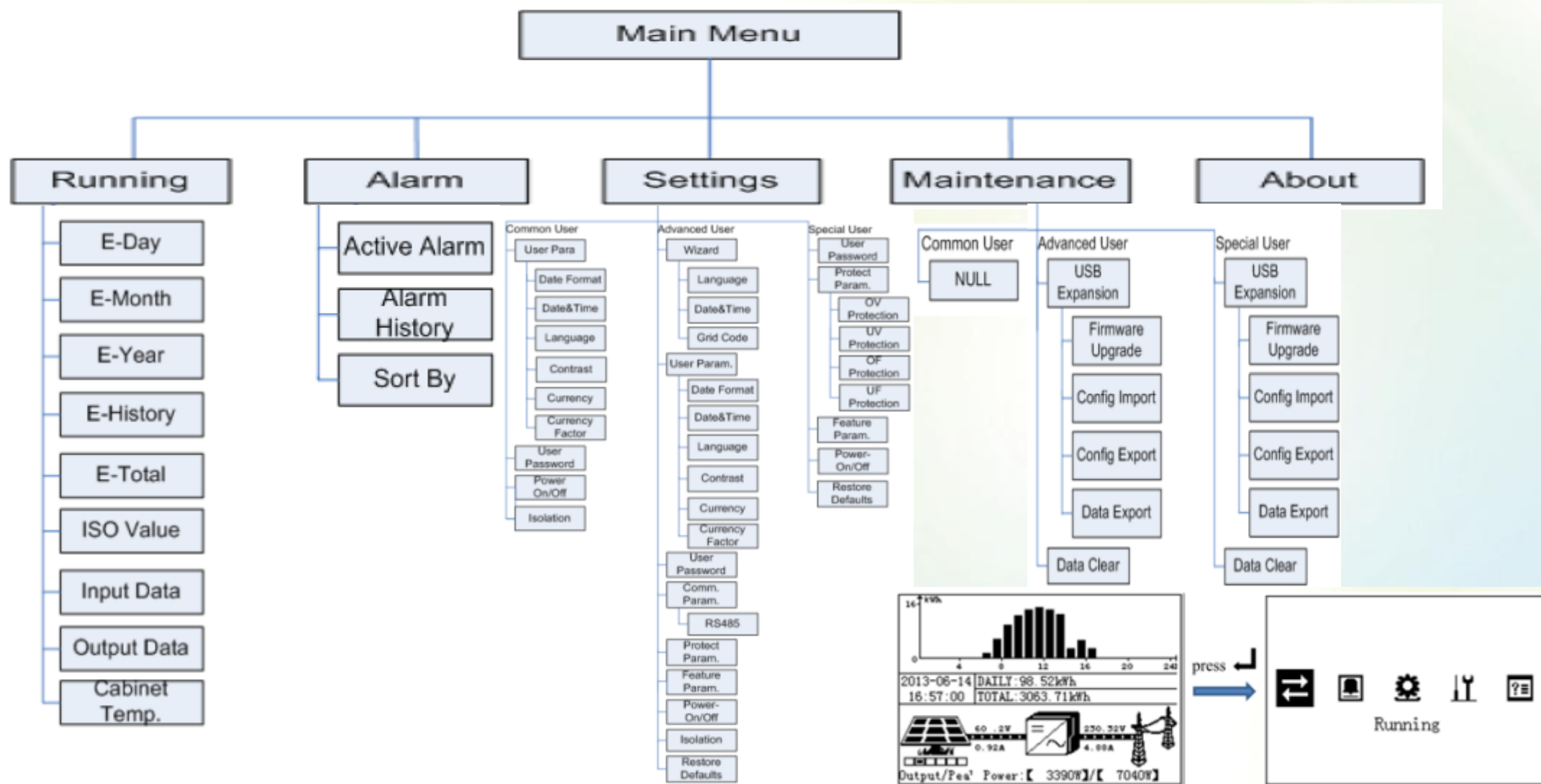
LCD Monitoring— Screen & Indicators



Button	Name	Function
ESC	Return	Allows you to return to the last page or end an operation.
	Up	Allows you to go to the upper-level menu or set parameters.
	Down	Allows you to go to the lower-level menu or set parameters.
	Confirm	Allows you to go to a menu or confirm a value.

Indicator	Status	Description
PV connection indicator 	Steady green	The SUN2000 connects to at least one of the PV arrays properly.
	Off	The SUN2000 disconnects from all PV arrays.
Grid tie indicator 	Steady green	The SUN2000 connects to the power grid properly.
	Off	The SUN2000 disconnects from the power grid.
Wireless connection indicator 	Reserved	Reserved (The wireless function is not available in this version.)
Alarm indicator 	Steady red	A critical alarm is generated.
	Blinking red (on for 0.5s and then off for 0.5s)	A minor alarm is generated.
	Blinking red (on for 1s and then off for 4s)	A warning is generated.

LCD Monitoring—Main Menu

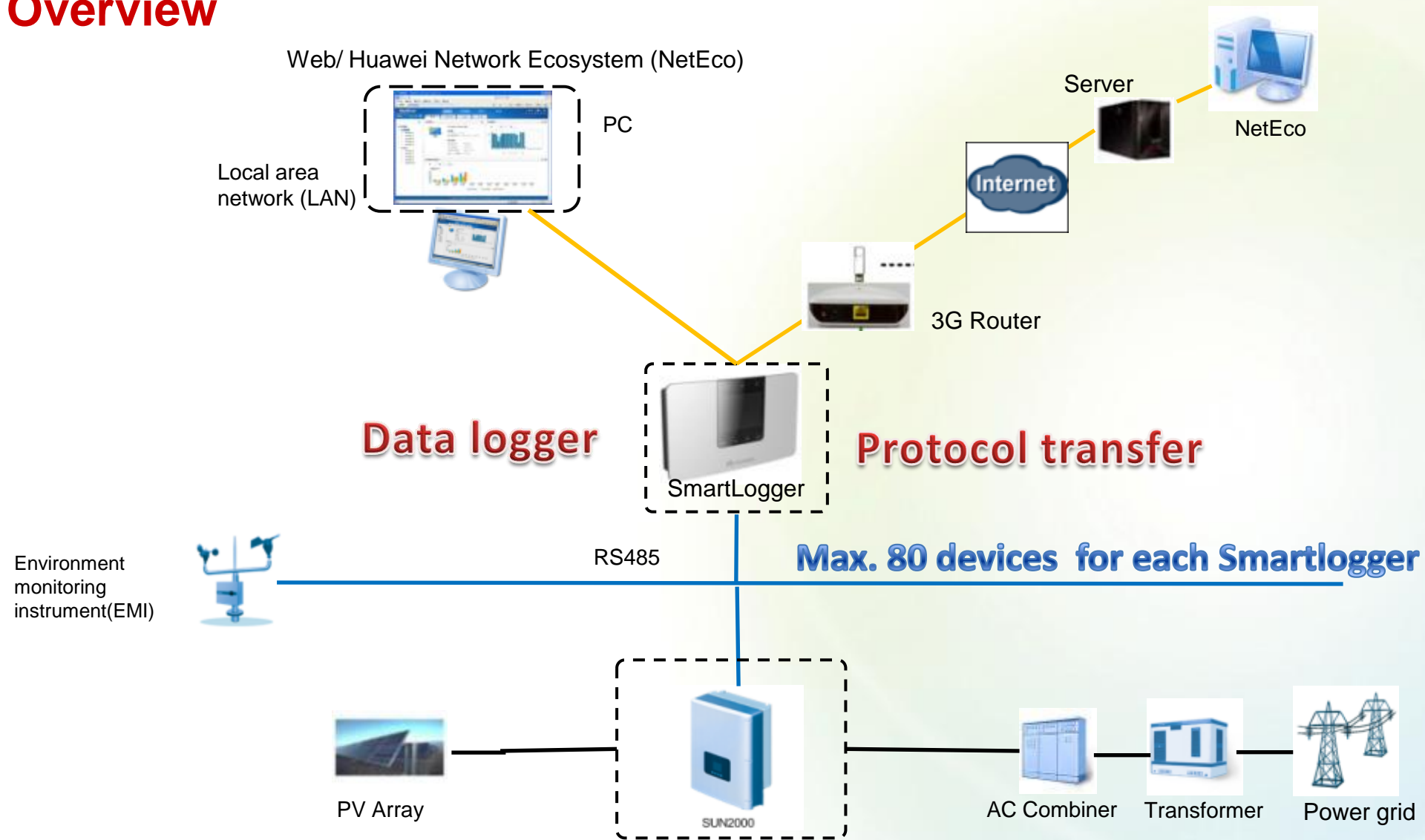


Contents

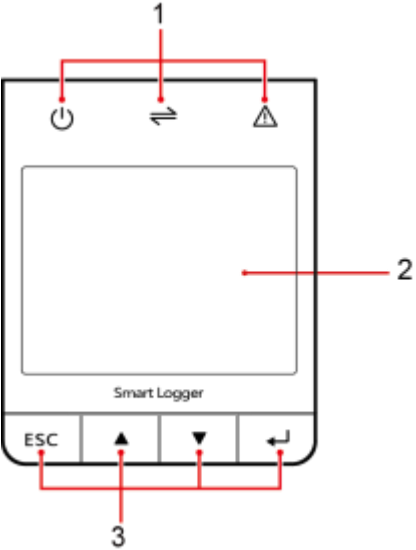
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Overview









Appearance



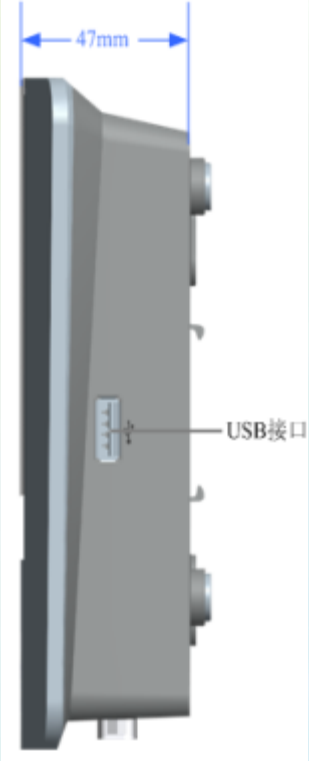
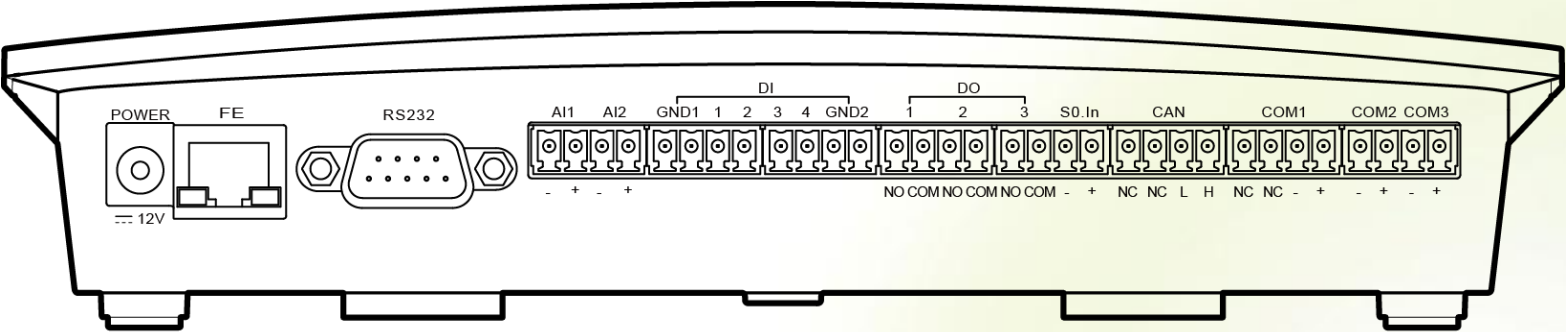
- 1. Indicator
- 2. LCD
- 3. Button



Indicator	Status	Meaning
Power indicator 	Steady green	The power supply is normal.
	Off	There is no power supply.
Run indicator 	Blinking green (on for 1s and then off for 1s)	The SmartLogger is working.
	Off	The SmartLogger stops working.
Alarm indicator 	Steady red	The inverter connected to the SmartLogger generates a major alarm.
	Blinking red (on for 0.5s and then off for 0.5s)	The inverter connected to the SmartLogger generates a minor alarm.
	Blinking red (on for 1s and then off for 4s)	The inverter connected to the SmartLogger generates a warning
	Off	The inverter connected to the SmartLogger is working normally.

Buttons	Name	Function
ESC	Return button	Allows you to return to the last page or end an operation.
	Cursor Down button	Allows you to go to the upper-level menu or set parameters.
	Cursor Up button	Allows you to go to the lower-level menu or set parameters.
	Confirm button	Allows you to go to the menu or confirm the value.

Appearance



Port	Quantity	Function	Description
POWER	1	Power supply	12 V DC
FE	1	Ethernet	100 M Ethernet, connects to a PC or router
RS232	1	RS232	(Reserved)
AI	2	Analog parameter input	12 V power supply current type (Reserved)
DI	4	Digital parameter input	Connects to the power grid dispatching signals controlled by dry contacts.
DO	3	Digital parameter output	Relay output
S0.In	1	Connects to pulse output meters.	(Reserved)
CAN	1	CAN	(Reserved)
COM	3	RS485	Connects to inverters and other PV devices.
USB	1	USB	Connects a USB device to download or upgrade

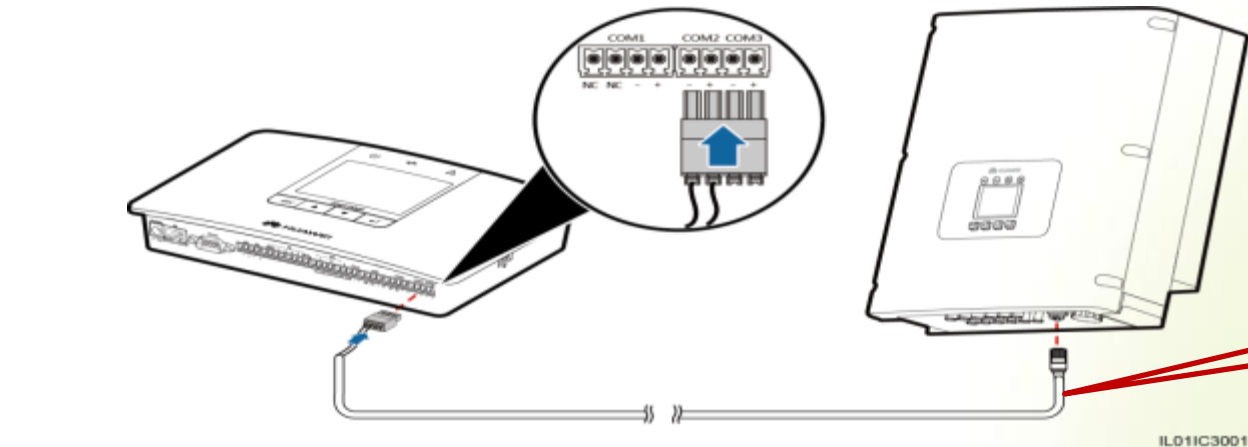
Installation- Desk mounting



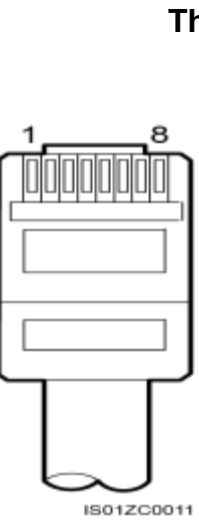
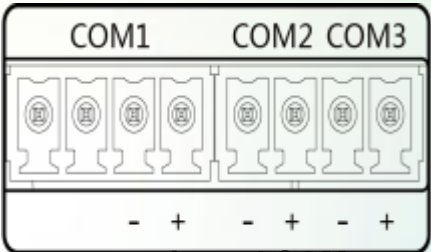
□ Note:

1. Place the SmartLogger on a horizontal desk, and face the cable connection area downwards.
2. Do not place the SmartLogger in a place that may touch cables. The cables must be secured.

Installation- Connect to inverter



Recommended Cable
CAT 5E outdoor shielded network cable



Category	Color	Function
1	White and orange	RS485A, RS485 differential signal +
2	Orange	RS485B, RS485 differential signal -
3	White and green	PGND
4	Blue	RS485A, RS485 differential signal +
5	White and blue	RS485B, RS485 differential signal -
6	Green	PGND
7	White and brown	PGND
8	Brown	PGND

Port	Identifier	Function
COM1 port	NC	NC: Reserved
	NC	NC: Reserved
	-	-: RS485 differential signal -
	+	+: RS485 differential signal +
COM2 port	-	-: RS485 differential signal -
	+	+: RS485 differential signal +
COM3 port	-	-: RS485 differential signal -
	+	+: RS485 differential signal +

Installation- Connect to inverter and EMI

EMI
at the end of the chain
the RS485 address should be set as '1'

Environment
detector

Inverter

Inverter

Inverter

Inverter

Inverter

Inverter

Inverter

Inverter

Inverter

Inverter

Inverter

RS485
IN

RS485
OUT

RS485
IN

RS485
OUT

RS485
IN

RS485
OUT

COM1

COM2

COM3

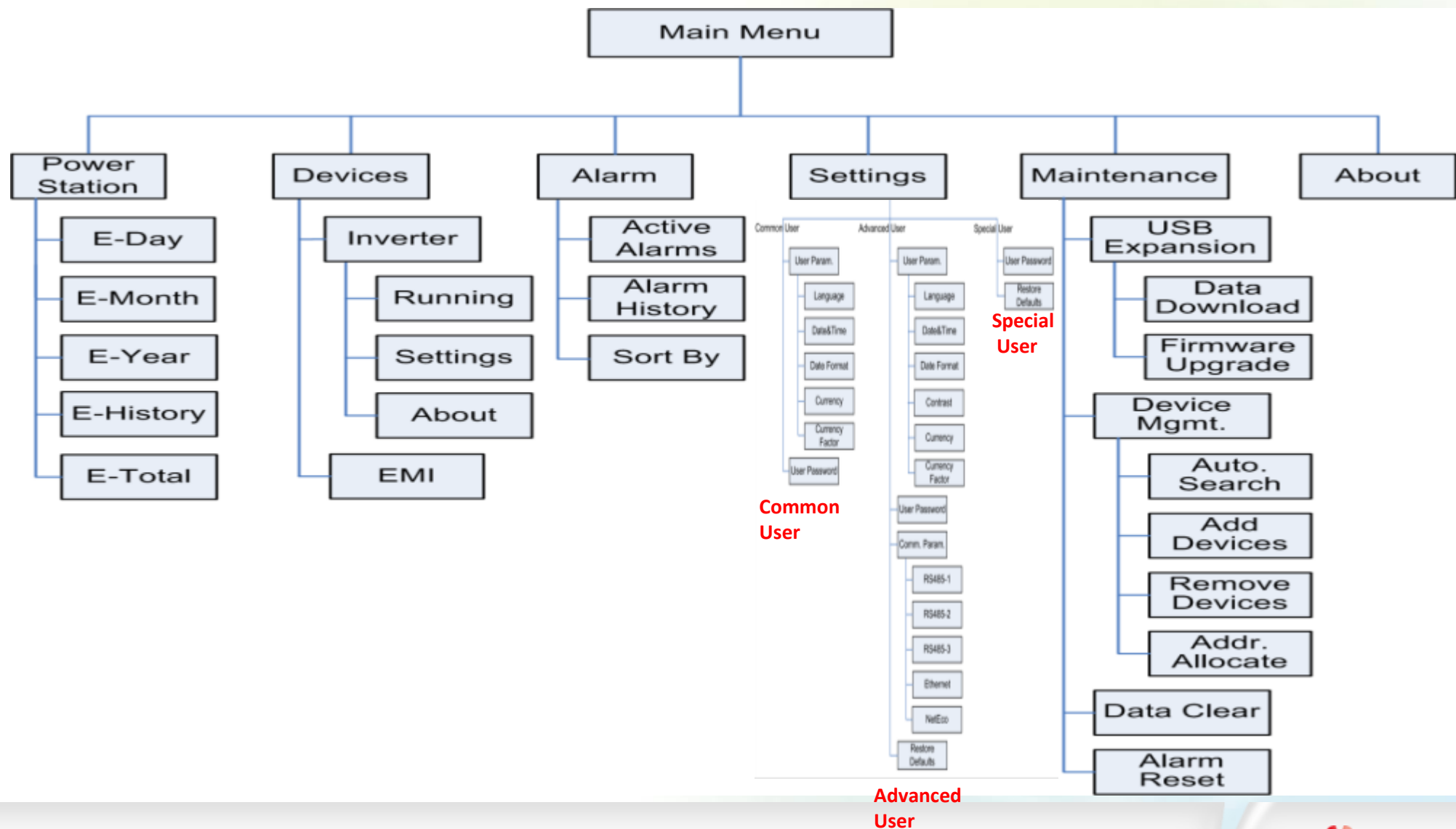
SmartLogger1000

Max .30 devices /com

Max .80 devices in total

Every inverter in the end of a chain should set
Match resistance as Connect in the Comm.Param

Function- LCD Main Menu



WebUI- Hardware prepare

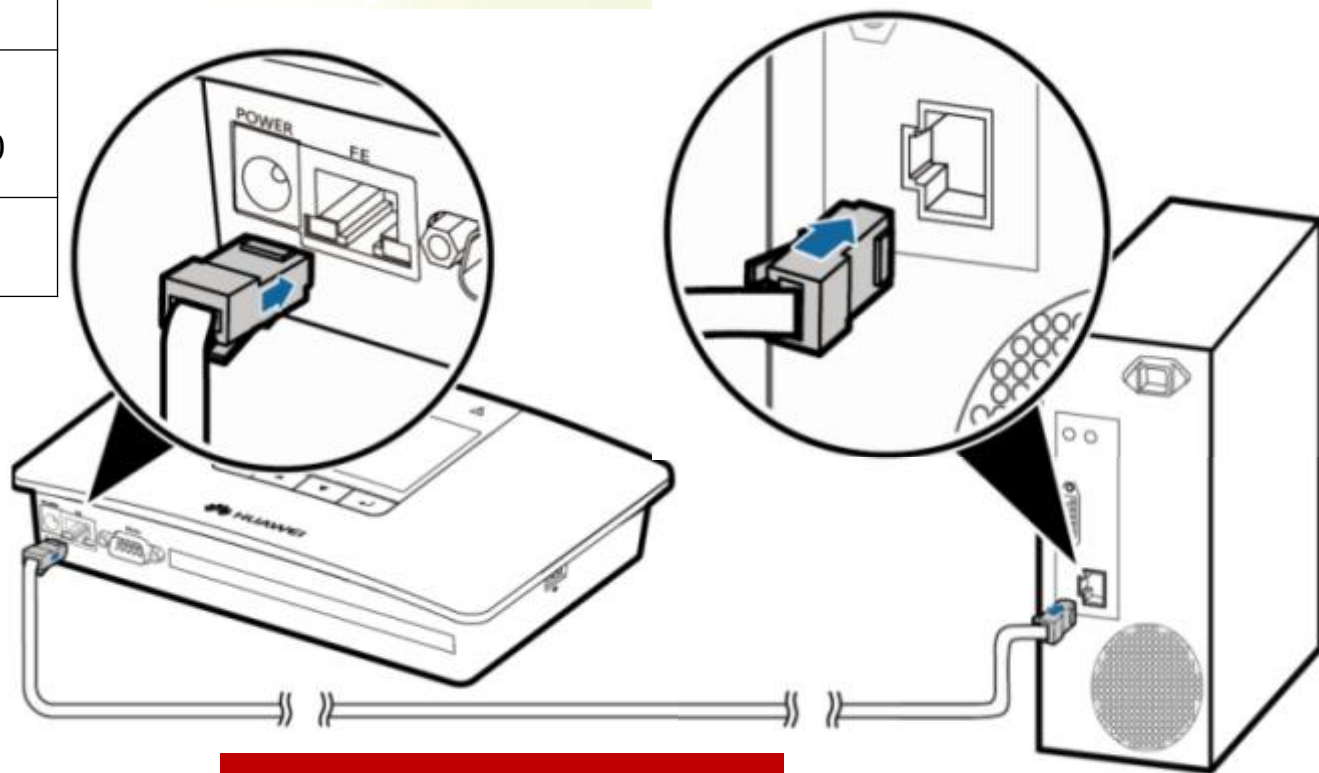
Operating system requirement of PC	
Operating system	Windows
Browser	Internet Explorer 7.0/8.0/9.0 Firefox 17.0/18.0/19.0/20.0/21.0
Minimum resolution	1024 x 768

Default parameters:

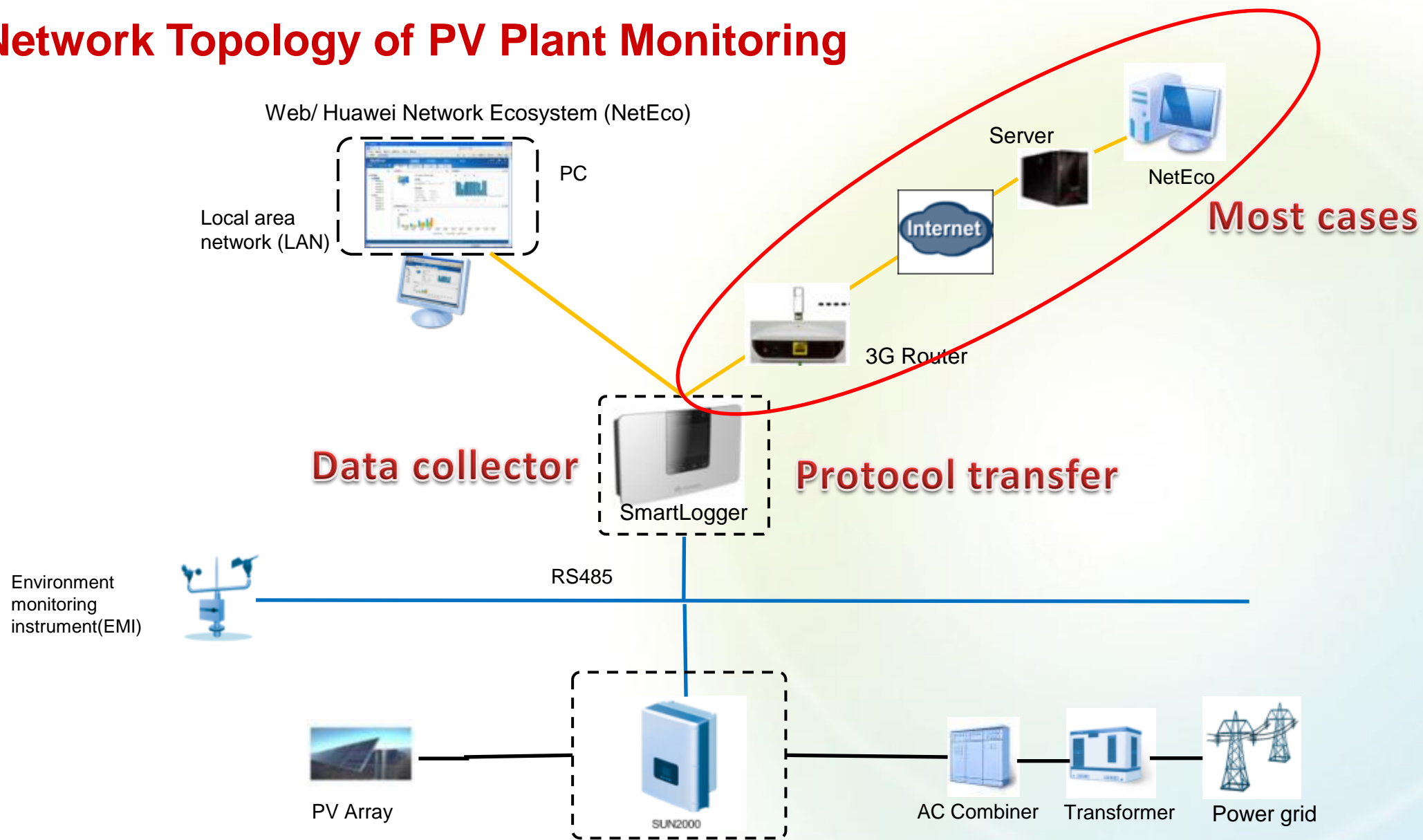
IP address: 192.168.0.10
Subnet mask: 255.255.255.0
Gateway: 192.168.0.1

**IP of Smartlogger and PC
should be in the same segment**

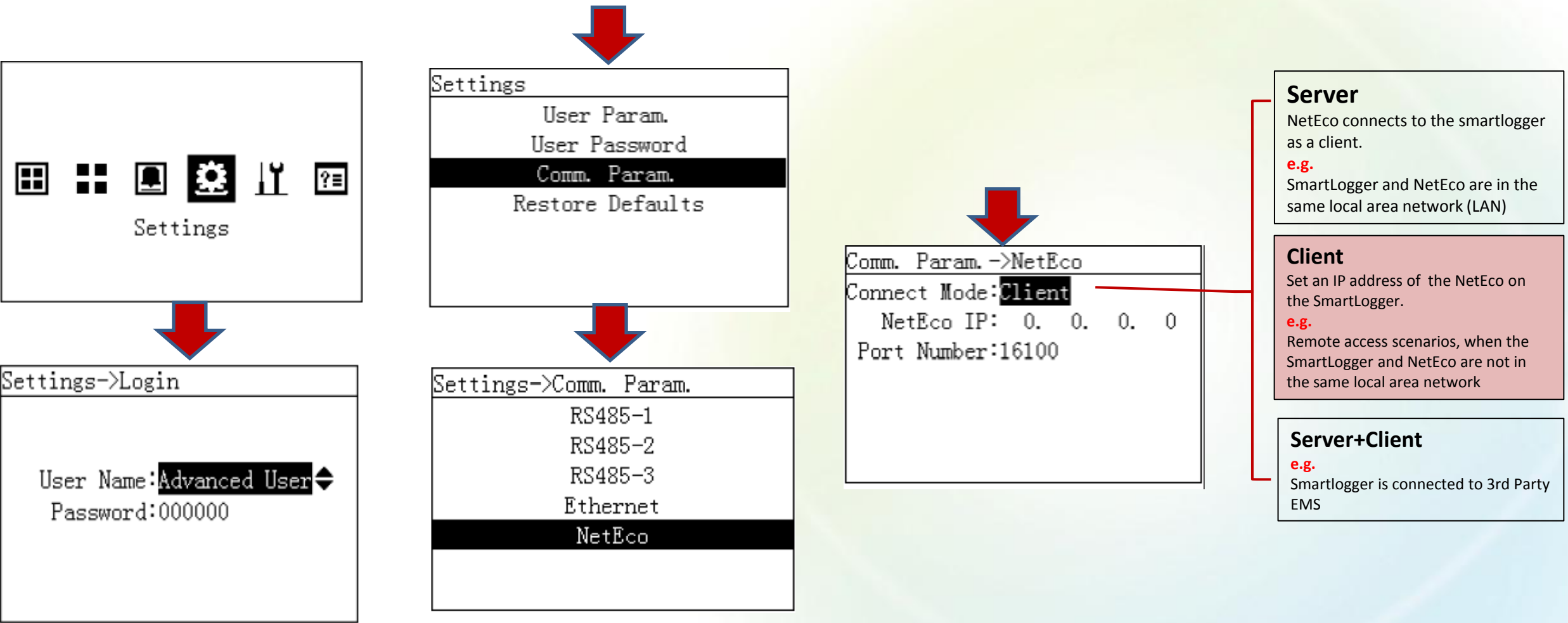
e.g. Smartlogger : 192.168.0.10
PC : 192.168.0.11



Network Topology of PV Plant Monitoring



Connect to Neteco server – Make sure Smartlogger connected to server



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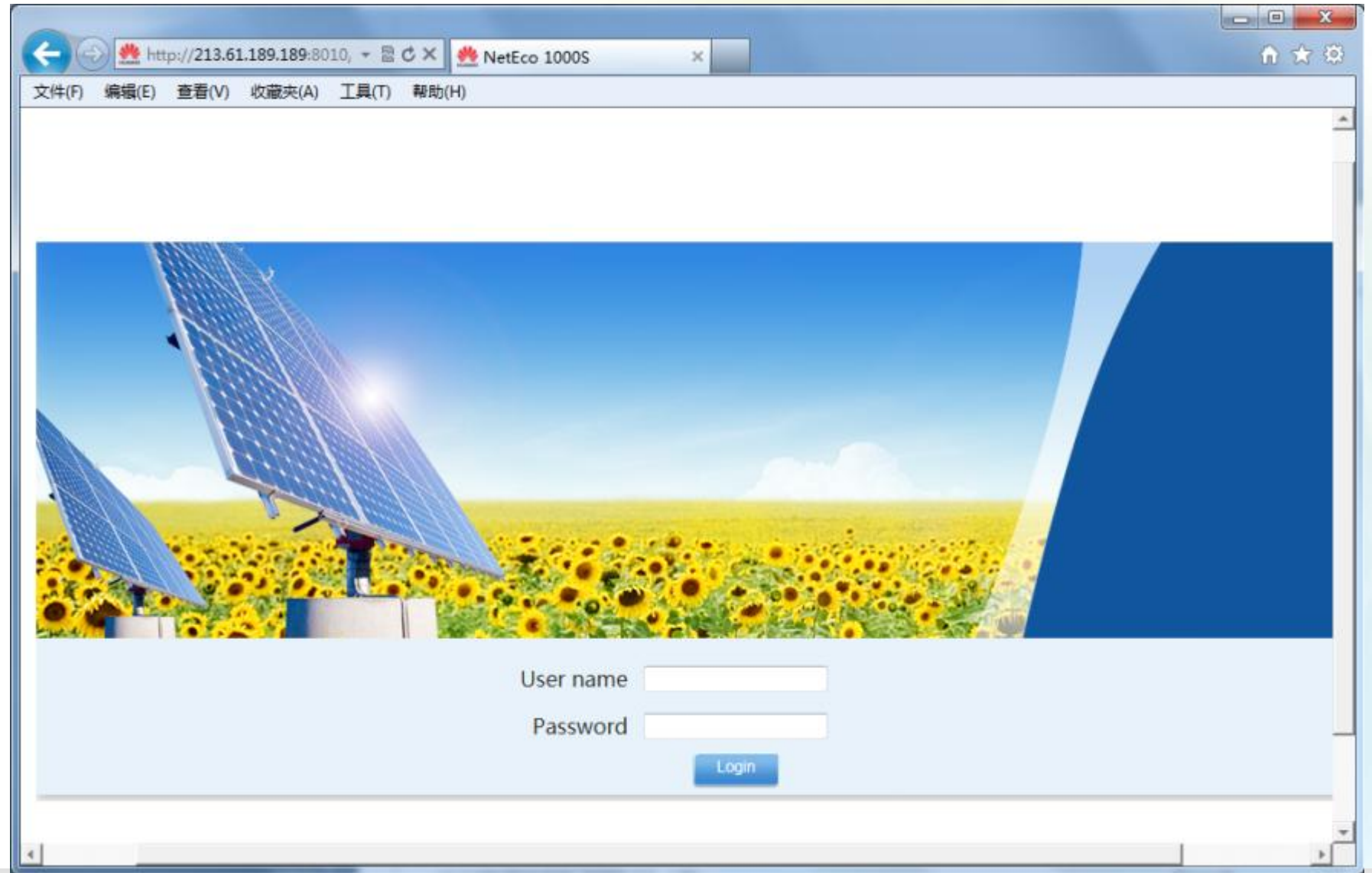


Neteco Web- Login through Browser

Open browser
(IE 8/IE9 /Firefox)

Input IP address
213.61.189.189:8010
(Sever IP in Nurnberg)

Input User name &
Password



Neteco Web- Interface



Neteco Web- Monitoring

NetEco

Monitor

Historical Data

ks | 🔒 | 🔄 | 📄

🔴 0 🟡 301 🟢 0 🟦 0

🔄

Enter the device name 🔍

📁 PV System

📁 Reden Project

Details

Device List

Alarm

📄 Look

📄 Export

Alarm severity: ☒ Select All ☒ Critical ☒ Major ☒ Minor ☒ Warning

Alarm Severity	Alarm Name	Type	Name	PV Plant	Generated On
🟡 Major	Communication Between NetEco And Device Is Abnormal	EMI	EMI_292	Reden Project	2015-01-19 12:11:46
🟡 Major	Communication Between NetEco And Device Is Abnormal	SUN2000	SUN2000_D2J_COM2-10	Reden Project	2015-01-19 12:10:46
🟡 Major	Communication Between NetEco And Device Is Abnormal	SUN2000	SUN2000_D2E_COM2-05	Reden Project	2015-01-19 12:10:46
🟡 Major	Communication Between NetEco And Device Is Abnormal	SUN2000	SUN2000_D1B_COM1-12	Reden Project	2015-01-19 12:10:46
🟡 Major	Communication Between NetEco And Device Is Abnormal	SUN2000	SUN2000_D2B_COM2-02	Reden Project	2015-01-19 12:10:46
🟡 Major	Communication Between NetEco And Device Is Abnormal	SUN2000	SUN2000_D6G_COM2-17	Reden Project	2015-01-19 12:10:46
🟡 Major	Communication Between NetEco And Device Is Abnormal	SUN2000	SUN2000_D5J_COM3-20	Reden Project	2015-01-19 12:10:46
🟡 Major	Communication Between NetEco And Device Is Abnormal	SUN2000	SUN2000_D1G_COM1-17	Reden Project	2015-01-19 12:10:46
🟡 Major	Communication Between NetEco And Device Is Abnormal	SUN2000	SUN2000_D1H_COM1-18	Reden Project	2015-01-19 12:10:46
🟡 Major	Communication Between NetEco And Device Is Abnormal	SUN2000	SUN2000_D4J_COM3-10	Reden Project	2015-01-19 12:10:46
🟡 Major	Communication Between NetEco And Device Is Abnormal	SUN2000	SUN2000_D1A_COM1-11	Reden Project	2015-01-19 12:10:46
🟡 Major	Communication Between NetEco And Device Is Abnormal	SUN2000	SUN2000_D2H_COM2-08	Reden Project	2015-01-19 12:10:46
🟡 Major	Communication Between NetEco And Device Is Abnormal	SUN2000	SUN2000_D6C_COM2-13	Reden Project	2015-01-19 12:10:46
🟡 Major	Communication Between NetEco And Device Is Abnormal	SUN2000	SUN2000_D5I_COM3-19	Reden Project	2015-01-19 12:10:46
🟡 Major	Communication Between NetEco And Device Is Abnormal	SUN2000	SUN2000_D2G_COM2-07	Reden Project	2015-01-19 12:10:46
🟡 Major	Communication Between NetEco And Device Is Abnormal	SUN2000	SUN2000_D4A_COM3-01	Reden Project	2015-01-19 12:10:46
🟡 Major	Communication Between NetEco And Device Is Abnormal	SUN2000	SUN2000_D6D_COM2-14	Reden Project	2015-01-19 12:10:46
🟡 Major	Communication Between NetEco And Device Is Abnormal	SUN2000	SUN2000_D3B_COM1-02	Reden Project	2015-01-19 12:10:46
🟡 Major	Communication Between NetEco And Device Is Abnormal	SUN2000	SUN2000_D6I_COM2-19	Reden Project	2015-01-19 12:10:46
🟡 Major	Communication Between NetEco And Device Is Abnormal	SUN2000	SUN2000_D2F_COM2-06	Reden Project	2015-01-19 12:10:46

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Neteco Web- Querying Alarm log

NetEco Monitor **Historical Data**

ks | 🔒 | ? | 🏠

🔴 0 🟡 301 🟢 0

Enter the device name 🔍

📁 PV System
📁 Reden Project

Historical Data > Alarm Log

Time: ~ Alarm severity: ☐ Select All ☐ Critical ☐ Major ☒ Minor ☒ Warning



📄 Export

Alarm Severity	Alarm Name	Type	Name	PV Plant	Generated On	Cleared On	Clearance Type
🟡 Warning	String 2 Reverse	SUN2000	SUN2000_B4A_COM2-C	Reden Project	2015-01-18 11:13:20	2015-01-18 16:54:37	Auto Clear
🟡 Warning	String 2 Reverse	SUN2000	SUN2000_B4A_COM2-C	Reden Project	2015-01-17 13:51:48	2015-01-17 16:45:18	Auto Clear
🟡 Warning	String 2 Reverse	SUN2000	SUN2000_B4A_COM2-C	Reden Project	2015-01-15 10:17:05	2015-01-15 15:28:24	Auto Clear
🟡 Warning	String 2 Reverse	SUN2000	SUN2000_B4A_COM2-C	Reden Project	2015-01-14 15:53:33	2015-01-14 16:22:15	Auto Clear
🟡 Warning	String 2 Reverse	SUN2000	SUN2000_B4A_COM2-C	Reden Project	2015-01-14 15:09:10	2015-01-14 15:33:03	Auto Clear
🟡 Warning	String 2 Reverse	SUN2000	SUN2000_B4A_COM2-C	Reden Project	2015-01-13 09:29:03	2015-01-13 15:53:25	Auto Clear
🟡 Warning	String 2 Reverse	SUN2000	SUN2000_B4A_COM2-C	Reden Project	2015-01-11 10:13:23	2015-01-11 16:43:28	Auto Clear
🟡 Warning	String 2 Reverse	SUN2000	SUN2000_B4A_COM2-C	Reden Project	2015-01-10 13:44:34	2015-01-10 15:21:57	Auto Clear
🟡 Warning	String 2 Reverse	SUN2000	SUN2000_B4A_COM2-C	Reden Project	2015-01-06 09:59:43	2015-01-06 16:29:57	Auto Clear
🟡 Warning	String 2 Reverse	SUN2000	SUN2000_B4A_COM2-C	Reden Project	2015-01-05 10:08:59	2015-01-05 16:32:43	Auto Clear
🟡 Warning	String 2 Reverse	SUN2000	SUN2000_B4A_COM2-C	Reden Project	2015-01-04 09:38:37	2015-01-04 15:59:31	Auto Clear
🟡 Warning	String 2 Reverse	SUN2000	SUN2000_B4A_COM2-C	Reden Project	2014-12-26 09:59:13	2014-12-26 15:14:01	Auto Clear
🟡 Warning	String 2 Reverse	SUN2000	SUN2000_B4A_COM2-C	Reden Project	2014-12-25 13:39:19	2014-12-25 15:42:54	Auto Clear
🟡 Warning	String 2 Reverse	SUN2000	SUN2000_B4A_COM2-C	Reden Project	2014-12-21 11:12:54	2014-12-21 14:58:11	Auto Clear
🟡 Warning	String 2 Reverse	SUN2000	SUN2000_B4A_COM2-C	Reden Project	2014-12-20 11:08:37	2014-12-20 14:38:44	Auto Clear
🟡 Warning	String 2 Reverse	SUN2000	SUN2000_B4A_COM2-C	Reden Project	2014-12-15 09:25:33	2014-12-15 14:01:35	Auto Clear
🟡 Warning	String 2 Reverse	SUN2000	SUN2000_B4A_COM2-C	Reden Project	2014-12-08 10:58:25	2014-12-08 16:04:17	Auto Clear
🟡 Warning	String 2 Reverse	SUN2000	SUN2000_B4A_COM2-C	Reden Project	2014-12-07 11:39:58	2014-12-07 15:57:20	Auto Clear
🟡 Warning	String 2 Reverse	SUN2000	SUN2000_B4A_COM2-C	Reden Project	2014-11-28 11:01:35	2014-11-28 15:51:47	Auto Clear
🟡 Minor	Version Mismatch	SUN2000	SUN2000_C6B_COM3-C	Reden Project	2014-11-22 11:35:35	2014-11-22 12:07:42	Auto Clear

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Neteco- Report Email



邮件 开发工具

PV Plant Report (2015-01-28 22:00) - 邮件 (HTML)

发件人: huaweinuremberg@163.com

收件人: Zhoutao (Steven); dengliming; Zhouliang (Bruce); Stephan Linz; Roland Huempfer; Chenguoguang; Kuangsai; Chengpengfei

抄送:

主题: PV Plant Report (2015-01-28 22:00)

Time:2015-01-28 00:00~2015-01-28 22:00

Total
Day Energy: 2037.00kWh
Total Energy: 4816414.90kWh

PV Plant Name: Reden Project
Total DC Power: 7857.750kWp
Total Energy: 4816414.90kWh
Day Energy: 2037.00kWh
Day Performance Ratio: 78.26%

Number of Inverters: 300
Inverter Average Spec. Energy: 0.26kWh/kWp
Maximum Spec. Energy: 0.28kWh/kWp
Minimum Spec. Energy: 0.13kWh/kWp
Ratio Threshold of Average Spec. Energy: 80.00%
Inverters below Ratio Threshold: 6

No.	Device Name	Total Energy (kWh)	Day Energy (kWh)	Spec. Energy (kWh/kWp)	Ratio of Average
1	SUN2000_E6I_COM3-19	17663.87	3.56	0.13	51.30%
2	SUN2000_E6H_COM3-18	18046.76	4.12	0.15	59.37%
3	SUN2000_E3I_COM2-19	18492.67	4.42	0.17	63.69%
4	SUN2000_C4C_COM3-03	18239.53	5.06	0.19	72.92%
5	SUN2000_D4I_COM3-09	18734.73	5.10	0.19	73.49%
6	SUN2000_A1D_COM2-14	17655.06	4.99	0.19	73.98%
7	SUN2000_E2H_COM1-08	19076.64	6.13	0.23	88.33%
8	SUN2000_E6J_COM3-20	23450.54	6.17	0.23	88.91%
9	SUN2000_E6G_COM3-17	18763.18	6.34	0.24	91.36%
10	SUN2000_E6E_COM3-15	18864.92	6.36	0.24	91.65%
11	SUN2000_E6A_COM3-11	18942.65	6.36	0.24	91.65%
12	SUN2000_E6C_COM3-13	8206.23	6.39	0.24	92.08%
13	SUN2000_E6F_COM3-16	8228.71	6.40	0.24	92.23%
14	SUN2000_E6D_COM3-14	18680.76	6.41	0.24	92.37%
15	SUN2000_E6B_COM3-12	18841.73	6.41	0.24	92.37%
16	SUN2000_E4H_COM2-08	18708.48	6.42	0.24	92.51%
17	SUN2000_E3J_COM2-20	18941.56	6.44	0.24	92.80%



Neteco APP- Installation

Search 'Neteco' in app shops



iOS (>5.0)



Android (>4.0)


SUN2000- App



NetEco

IP Address*	213.61.189.189	✕
Port*	8010	✕
Username*	XXXX	✕
Password*	*****	✕
Auto Login	<input checked="" type="checkbox"/>	

Login

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APP- PV plant in your hand



The Plant List screen displays a list of PV plants with their respective status and performance data. Each entry includes a thumbnail image, a plant name, a timestamp, today's energy production, and the current status.

Plant Name	Timestamp	Today's Production	Status
test1by_op_1	10-16 16:30	8.3 MWh	Major
test2by_op_123...	10-16 16:30	5.2 MWh	Warning
test3by_op_1	10-16 16:30	605.8 kWh	Normal
shenzhenqianhai	09-30 16:30	0.0 kWh	

The Inverter List screen displays a list of inverters with their respective status and performance data. Each entry includes a thumbnail image, an inverter name, a timestamp, today's energy production, and the current status.

Inverter Name	Timestamp	Today's Production	Status
SUN2000_A1A_C...	11-12 22:30	12.3 kWh	No Irradiation
SUN2000_A1B_C...	11-12 22:30	12.2 kWh	No Irradiation
SUN2000_A1C_C...	11-12 22:30	12.3 kWh	No Irradiation
SUN2000_A1D_C...	11-12 22:30	10.1 kWh	No Irradiation
SUN2000_A1E_C...	11-12 22:30	12.3 kWh	No Irradiation
SUN2000_A1F_C...	11-12 22:30		

New Products:

- Huawei SUN2000 36KTL LV 400V
- Huawei SUN2000 42KTL MV 480V



Thank you.

www.huawei.com

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