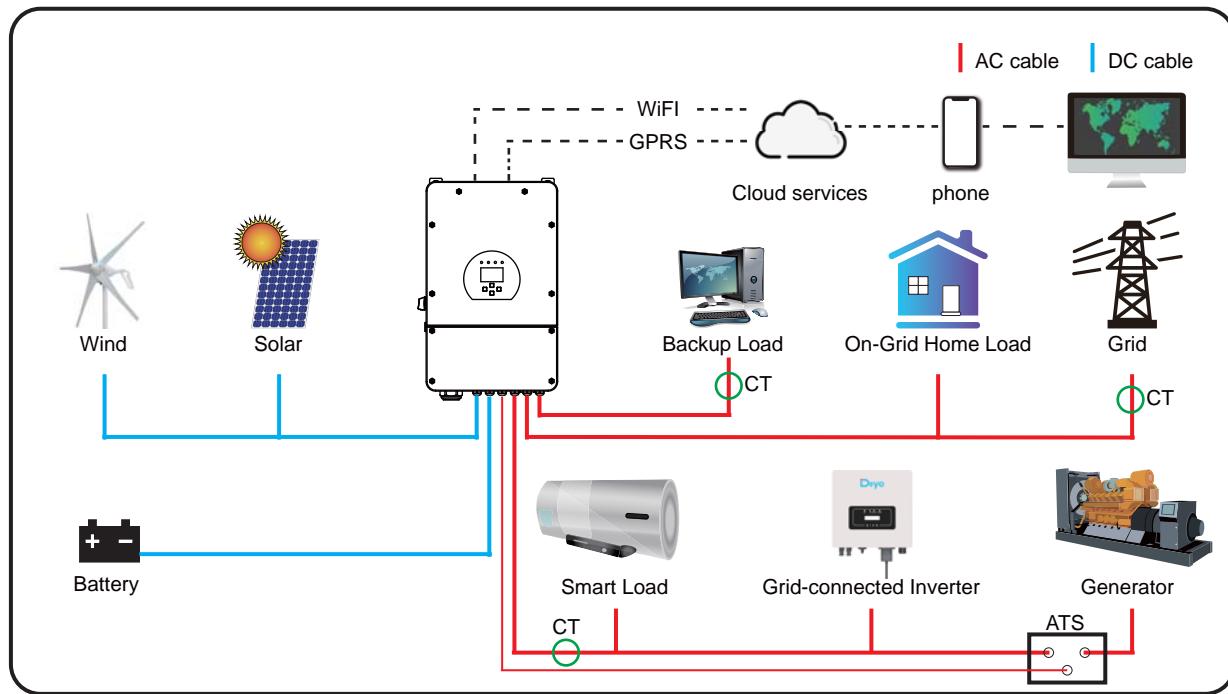




Residential Energy Storage solutions

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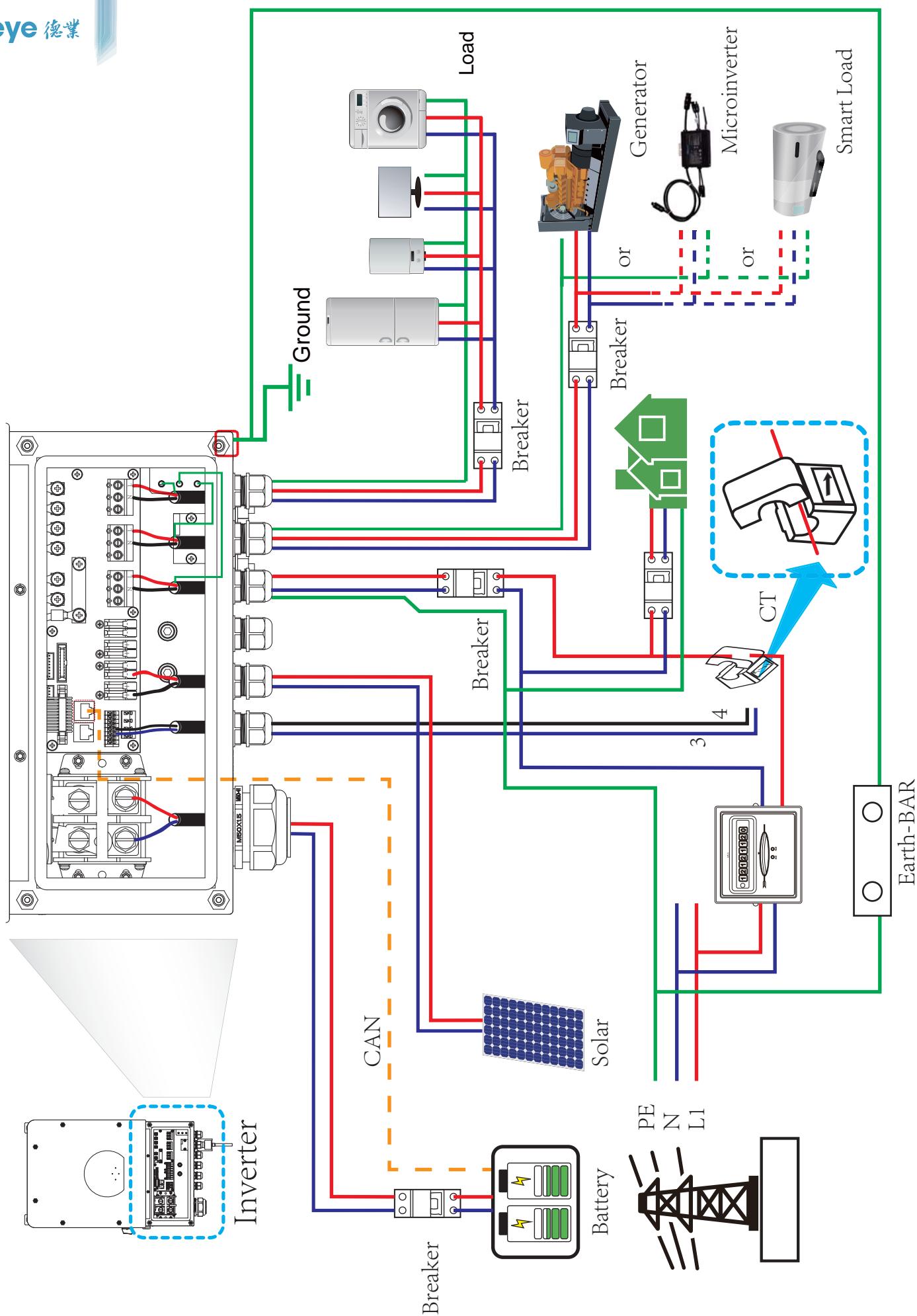
We can offer

- ◆ Hybird Inverter
- ◆ Solar panel
- ◆ Battery(AGM&Lithium)
- ◆ Meter/Current Sensor
- ◆ Datalogger(WIFI&GPRS) and APP
- ◆ Solutions &Any customized requirements



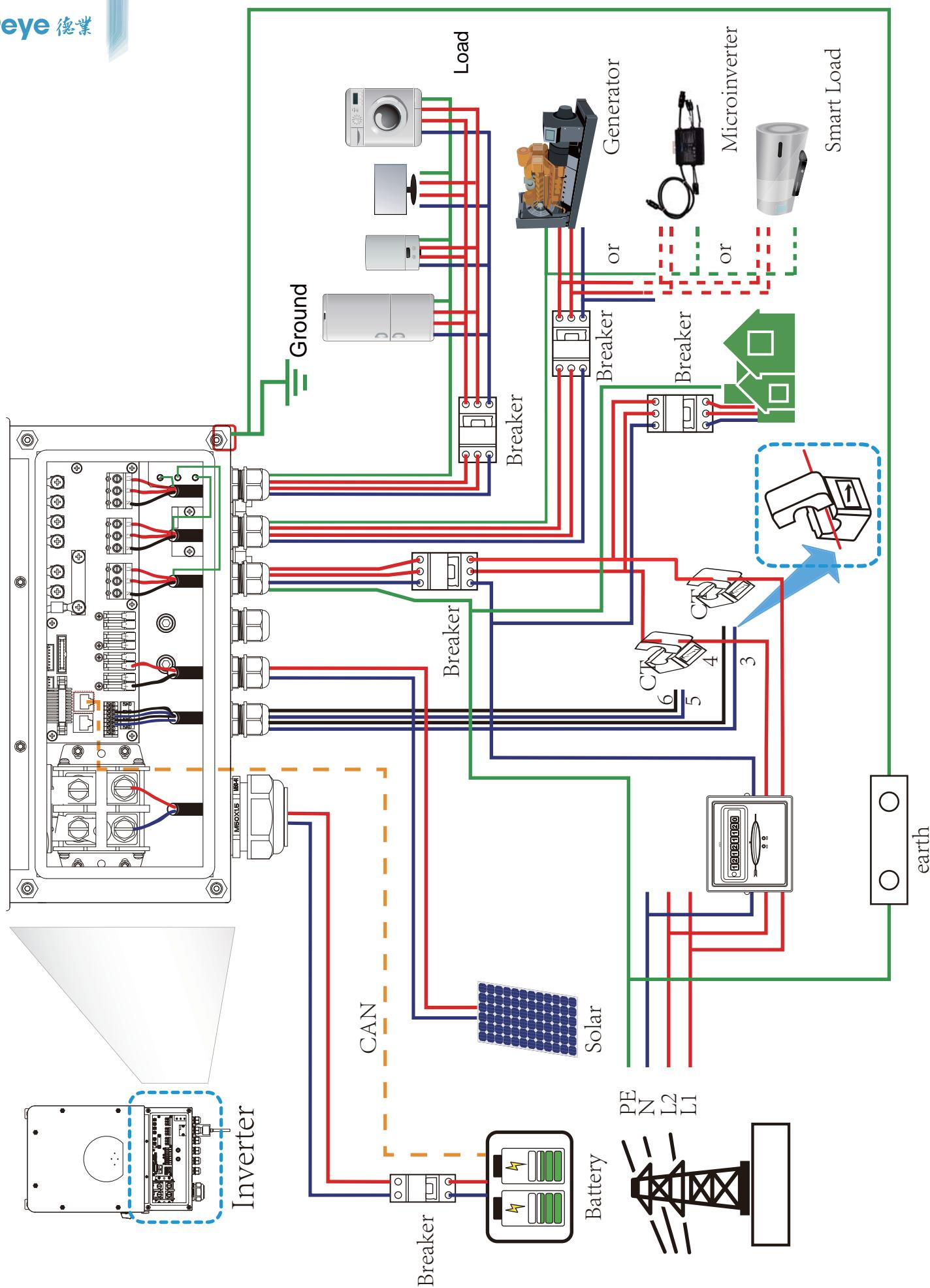


Wiring System for Inverter(Region:EU)





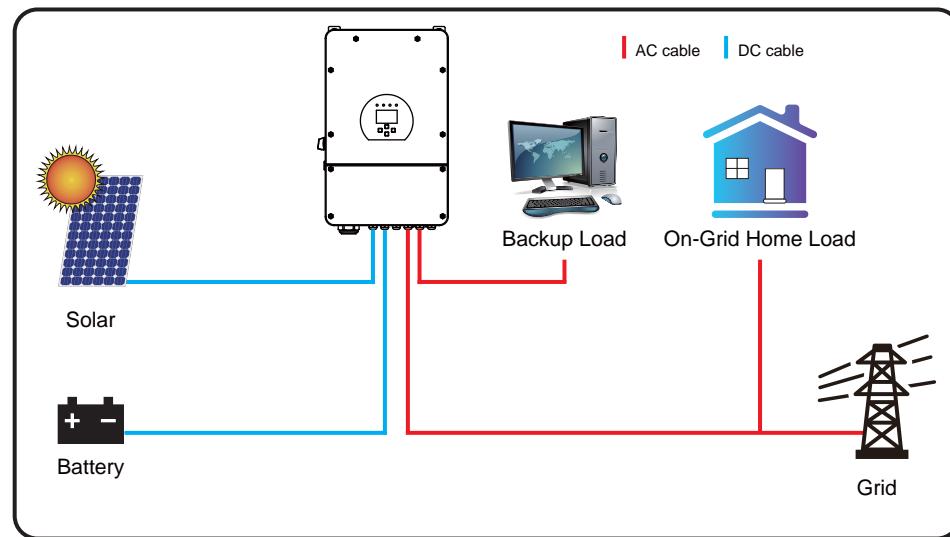
Wiring System for Inverter(Region:US)





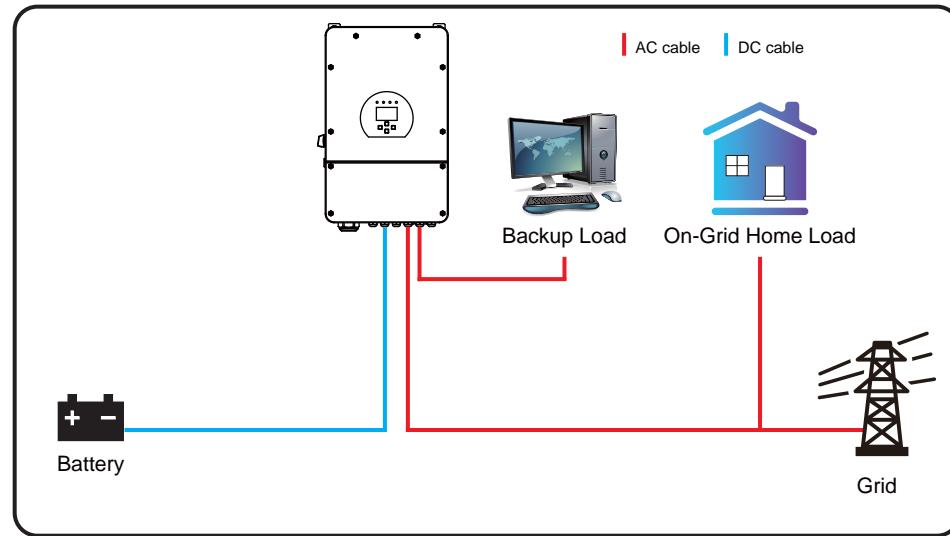
Backup mode (1.Solar Panel&SmartLoad 2.No Solar)

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- ◆ Maximize Your Power & Savings.

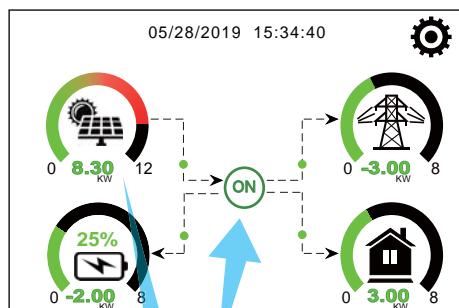
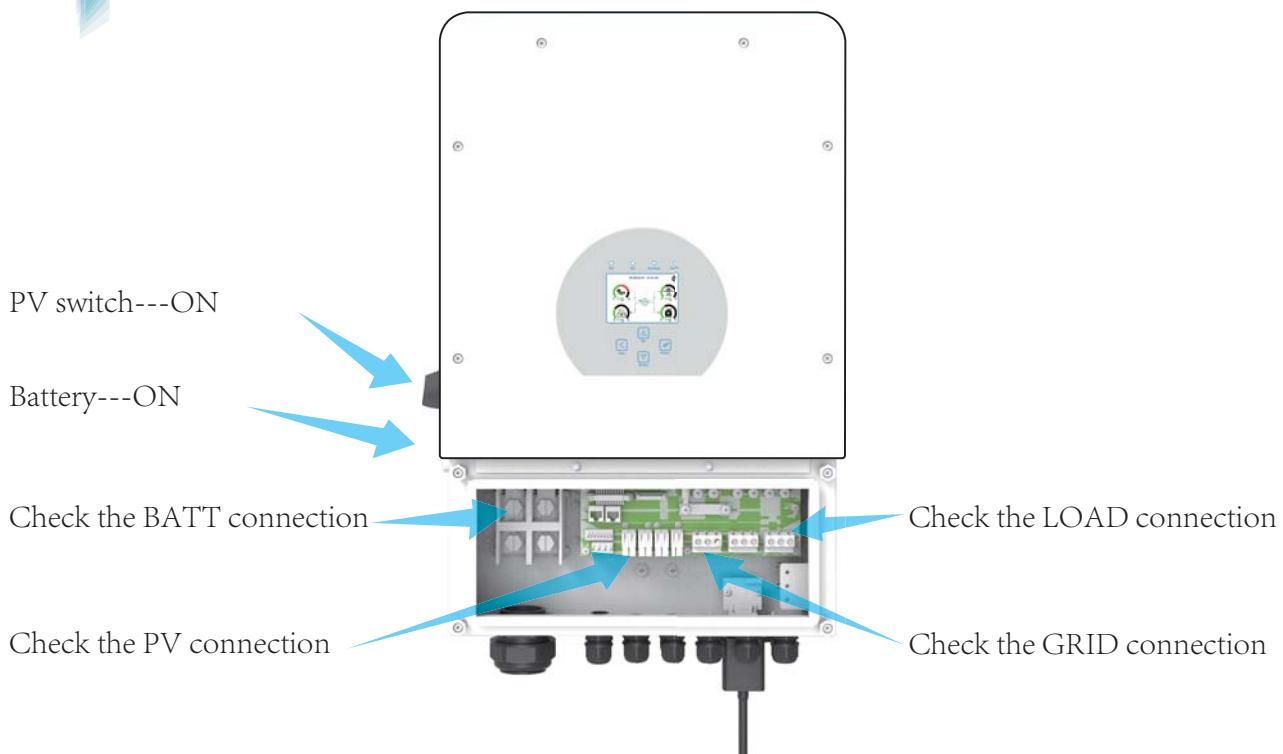
100% Self-Consumption PV will charge the Battery first, if you don't want to sell power to grid when the battery is full. Then you can turn on the smart-load function.



- ◆ No Solar Panel Low cost & Reliable.



Backup mode (1.Solar Panel&SmartLoad 2.No Solar)

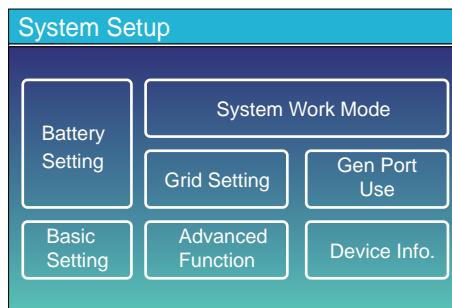


Inverter Running Status
ON: Inverter ON

OFF: Inverter OFF

Fxx: Alarm code Fxx

COMM.: Lost Communication with MCU



Battery Setting: Battery Mode, Charge&Discharge Current, Charge Voltage

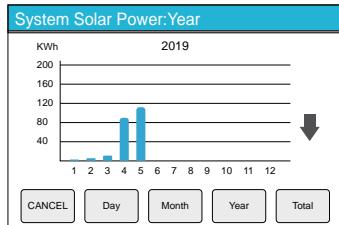
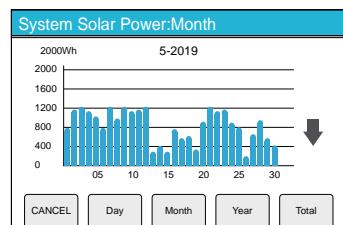
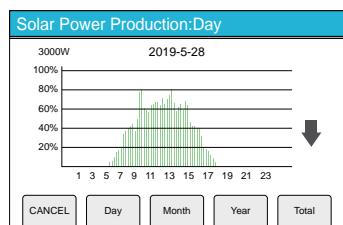
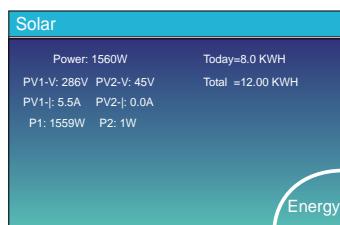
Basic Setting: Time, Beep, Factory Reset, Backlight, Lock out all changes

System Work Mode: Sell Grid, Zero-port to Load&Sell, Zero-port to CT&Sell,

Grid Setting: Grid mode, voltage type, frequency, PF

Gen Port Use: Generator input, Smart Load output, MI input.

Device Info: System version, ID, Alarm codes





Backup mode

LCD Setup-How to use

Battery Setting

Battery Setting	
Batt Mode	
<input checked="" type="radio"/> Lithium	Batt Capacity
<input type="radio"/> Use Batt V	Max A Charge
<input type="radio"/> Use Batt %	Max A Discharge
<input type="radio"/> No Batt	<input checked="" type="checkbox"/> Activate Battery
<input type="button" value="Batt Mode"/> <input type="button" value="Set2"/> <input type="button" value="X"/> <input checked="" type="checkbox"/>	

● Batt Mode---Please select 1 2 3 batt mode

- 1.Lithium--Lithium Battery with BMS
- 2.Use Batt V--AGM Battery, System works according to voltage
- 3.Use Batt %--AGM Battery, System works according to SOC
- 4.NO Batt--inverter can work without battery

● Batt Capacity---Please input the right Capacity of your battery

● Max. Charge&Discharge Current---0-185A

● Activate Battery---Enable

If you select Lithium

Battery Setting	
Start ① 30%	② 30%
A 40A	40A
<input type="checkbox"/> Gen Charge	<input type="checkbox"/> Grid Charge
<input type="checkbox"/> Gen Signal	<input type="checkbox"/> Grid Signal
Gen Max Run Time ③ 0.0 hours	0.5 hours
Gen Down Time ④ 0.5 hours	
<input type="button" value="Batt Set2"/> <input type="button" value="X"/> <input checked="" type="checkbox"/>	

This is Generator Charge,,please ignore this part if you don't have Generator.

①

Start =30%---It indicates that the Generator will start when the Battery capacity is less than 30% in Off-grid mode.

A = 40A---It indicates the Current that the Generator charges the Battery after starting.

Gen Charge---It indicates the Switch that the Generator charges the Battery.

Gen Signal ---It indicates whether the Generator's ATS signal is on or off.

Gen Max RunTime ---It indicates the longest time Generator can run in one day,when time is up, the Generator will be turned off. 24H means that it does not shut down all the time.

③

Gen DownTime ---It indicates the delay time of the Generator to shut down after it has reached the running time.

Battery Setting	
Lithium Mode ④ 00	
Shutdown 10%	
Low Batt 30%	
Restart 80%	
<input type="button" value="Batt Set3"/> <input type="button" value="X"/> <input checked="" type="checkbox"/>	

You need set this part about Grid Charge.

②

Start =30% ---No use, Just for customization.

A = 40A ---It indicates the Current that the Grid charges the Battery.

Gen Charge---It indicates the Switch that the Generator charges the Battery.

Gen Signal ---Disable

Lithium Mode --This is BMS protocol.Please reference the document (Approved Battery-Deye)

④

Shutdown 10%--It indicates the inverter will shutdown if the SOC below this value.

Low Batt 20% --It indicates the inverter will alarm if the SOC below this value.

Restart 40% --It indicates the restart level when inverter shutdown.

If you select Use Batt V

Battery Setting	
Start ① 49.0V	② 49.0V
A 40A	40A
<input type="checkbox"/> Gen Charge	<input type="checkbox"/> Grid Charge
<input type="checkbox"/> Gen Signal	<input type="checkbox"/> Grid Signal
Gen Max Run Time ③ 0.0 hours	0.5 hours
Gen Down Time ④ 0.5 hours	
<input type="button" value="Batt Set2"/> <input type="button" value="X"/> <input checked="" type="checkbox"/>	

This is Generator Charge,please ignore this part if you don't have Generator.

①

Start =49V---It indicates that the Generator will start when the Battery voltage is less than 49V in Off-grid mode.

A = 40A---It indicates the Current that the Generator charges the Battery after starting.

Gen Charge---The Switch that the Generator charges the Battery.

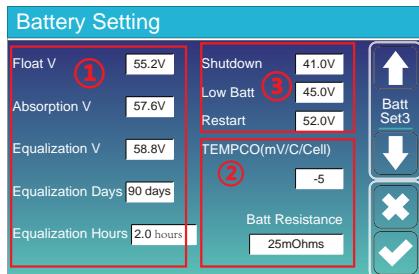
Gen Signal ---It indicates whether the Generator's ATS signal is on or off.



Backup mode

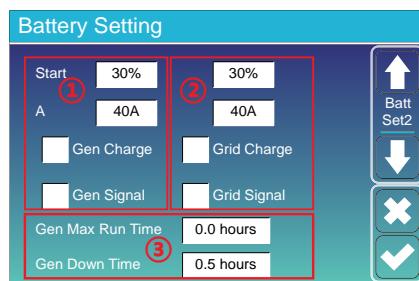
LCD Setup-How to use

Start =49V No use, just for customization. (2)
 A = 40A---It indicates the Current that the Grid charges the Battery.
 Gen Charge---It indicates the Switch that the Grid charges the Battery.
 Gen Signal ---It indicates whether the Generator's ATS signal is on or off.
 Gen Max RunTime ---It indicates the longest time Generator can run in one day,when the time is up, the Generator will be turned off. 24H means that it does not shut down all the time. (3)
 Gen DownTime ---It indicates the delay time of the Generator to shut down after it has reached the running time.



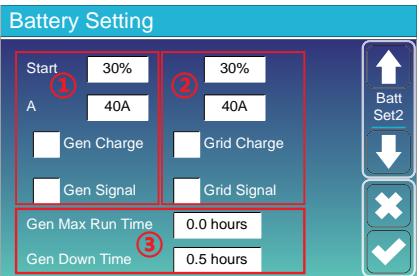
There are 4 stages of charging the Battery . (1)
 This is for professional installers,you can keep it if you do not know. (2)
 Shutdown 41V--The inverter will shutdown if the Voltage below this value. (3)
 Low Batt 45V--The inverter will alarm if the Voltage below this value.
 Restart 52V--Restart level when inverter shutdown

If you select Use Batt %



This is Generator Charge,please ignore this part if you don't have Generator. (1)
 Start =30% ---It indicates that the Generator will start when the Battery capacity is less than 30% in Off-grid mode.
 A = 40A ---It indicates the Current that the Generator charges the Battery after starting.
 Gen Charge---It indicates the Switch that the Generator charges the Battery.
 Gen Signal ---It indicates whether the Generator's ATS signal is on or off. (3)
 Gen Max RunTime ---It indicates the longest time Generator can run in one day, when the time is up, the Generator will be turned off. 24H means that it does not shut down all the time.
 Gen DownTime ---It indicates the delay time of the Generator to shut down after it has reached the running time.

You need to set this part about Grid Charge. (2)
 Start =30%---no use , just for customization.
 A = 40A---It indicates the Current that the Grid charges the Battery.
 Grid Charge---The Switch that the Grid charges the Battery.
 Grid Signal ---Disable



This is Generator Charge,please ignore this part if you don't have Generator. (1)
 Start =30% ---It indicates that the Generator will start when the Battery capacity is less than 30% in Off-grid mode.
 A = 40A ---It indicates the Current that the Generator charges the Battery after starting.
 Gen Charge---The Switch that the Generator charges the Battery.
 Gen Signal ---It indicates whether the Generator's ATS signal is on or off. (3)
 Gen Max RunTime ---It indicates the longest time Generator can run in one day, when the time is up, the Generator will be turned off. 24H means that it does not shut down all the time.
 Gen DownTime ---It indicates the delay time of the Generator to shut down after it has reached the running time.



Backup mode

LCD Setup-How to use

Battery Setting

Float V (1)	55.2V
Absorption V	57.6V
Equalization V	58.8V
Equalization Days	90 days
Equalization Hours	2.0 hours
Shutdown (3)	10% 30% 80%
TEMPCO(mV/C/Cell) (2)	-5
Batt Resistance	25mOhms

You need to set this part about Grid Charge. (2)

Start =30%---no use , for customization.

A = 40A---It indicates the Current that the Grid charges the Battery.

Grid Charge---The Switch that the Grid charges the Battery.

Grid Signal ---Disable.

These are 4 stages of charging the Battery . (1)

This is for professional installers,you can keep default if you do not know. (2)

Shutdown 10%--the inverter will shutdown if the SOC below this value. (3)

Low Batt 30%--the inverter will alarm if the SOC below this value.

Restart 80%--Restart level when inverter shutdown.

System Work Mode

System Work Mode

Work Mode (1)	Selling First
<input checked="" type="radio"/> Zero Export To Load	<input checked="" type="checkbox"/> Solar Sell
<input checked="" type="radio"/> Zero Export To CT	<input checked="" type="checkbox"/> Solar Sell
Max Sell Power (2)	4000
Energy pattern	<input checked="" type="checkbox"/> BattFirst <input type="checkbox"/> LoadFirst

Zero Export To Load+ Disable Solar Sell. (1)

Max. Sell Power----Modify by yourself (2)

BattFirst---Solar will charge the battery first,then to the load

LoadFirst---Solar will feed-out to the load first,then to the battery

System Work Mode

Grid Charge Gen	Time Of Use	Time	Batt
<input type="checkbox"/>	<input type="checkbox"/>	01:00 ~ 5:00	80%
<input type="checkbox"/>	<input type="checkbox"/>	05:00 ~ 9:00	80%
<input type="checkbox"/>	<input type="checkbox"/>	09:00 ~ 13:00	80%
<input type="checkbox"/>	<input type="checkbox"/>	13:00 ~ 17:00	80%
<input type="checkbox"/>	<input type="checkbox"/>	17:00 ~ 21:00	80%
<input type="checkbox"/>	<input type="checkbox"/>	21:00 ~ 01:00	80%

Time of Use----Disable

we have six Time of Use,Every time period must be from small to large.

Grid Charge---enable,When the actual SOC is smaller than the set value, the grid will charge the battery.

Grid Charge---Disable,The grid does not charge the battery.

Grid Charge---enable,When the actual SOC is smaller than the set value, the grid will charge the battery.

Grid Charge---Disable,The grid does not charge the battery.

Grid Setting

Grid Setting

Grid Mode	<input checked="" type="radio"/> General Standard <input checked="" type="radio"/> UL1741 & IEEE1547 <input type="radio"/> CPUC RULE21 <input type="radio"/> SRD-UL-1741
Grid Type	<input type="radio"/> 220V Single Phase <input checked="" type="radio"/> 120/240V Split Phase <input type="radio"/> 120/208V 3 Phase <input type="radio"/> 120V Single Phase

Please select the correct Grid Mode in your local area. If you are not sure, please choose General Standard.

Please select the correct Grid Type in your local area,otherwise the machine will not work or be damaged.



Backup mode

LCD Setup-How to use

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Grid Setting

Grid Frequency	<input checked="" type="radio"/> 50HZ <input type="radio"/> 60HZ
Reconnection Time	60S
PF	1.000
Grid HZ High	60.5Hz
Grid Vol High	265.0V
Grid HZ Low	59.3Hz
Grid Vol Low	185.0V

Grid Set2
Up Arrow
Down Arrow
X
Checkmark

UL1741&IEEE1547, CPUC RULE21, SRD-UL-1741

No need to set the function of this interface.

General Standard

① Please select the correct Grid Frequency in your local area.

② You can keep this in default value.

Gen Port Use

GEN PORT USE

Mode	<input checked="" type="radio"/> Generator Input <input type="radio"/> SmartLoad Output <input type="radio"/> Micro Inv Input	<input type="checkbox"/> Gen connect to Grid input <input type="checkbox"/> On Grid always on <input type="checkbox"/> MI export to Grid cutoff
Power	1000W	Open Delay 60Min
	OFF	95%
	ON	100%

PORT Set1
Up Arrow
Down Arrow
X
Checkmark

No need to set the function of this interface.

Advanced Function

Advanced Function

<input type="checkbox"/> Solar Arc Fault ON	<input type="checkbox"/> Clear Arc_Fault
<input type="checkbox"/> System selfcheck	
<input type="checkbox"/> Gen peak-shaving	Power 7000W
<input type="checkbox"/> Grid peak-shaving	Power 4000W

Func Set1
Up Arrow
Down Arrow
X
Checkmark

Solar Arc Fault ON---This is only for US.

System selfcheck---Disable. this is only for factory.

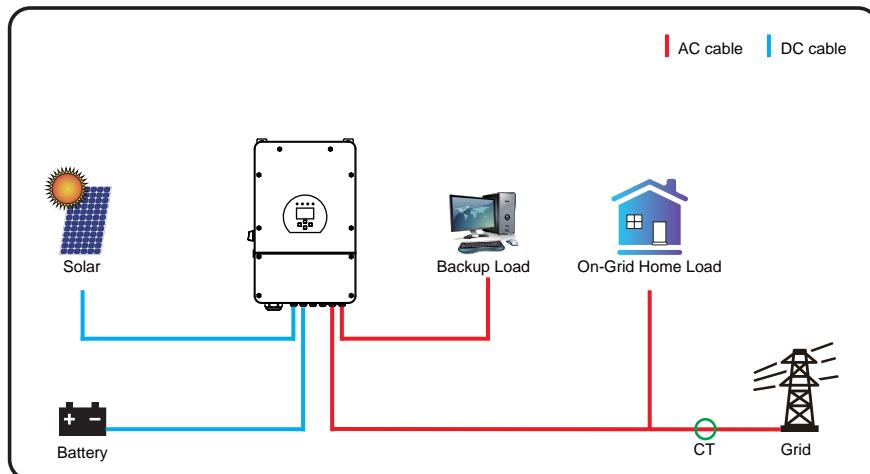
Gen Peak-shaving---Disable

Grid Peak-shaving---Disable. When the power of the grid exceeds the set value, the inverter will provide the redundant part to ensure that the grid power does not exceed the set value.



Zero-export

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♦ Zeor-export to Home(CT)

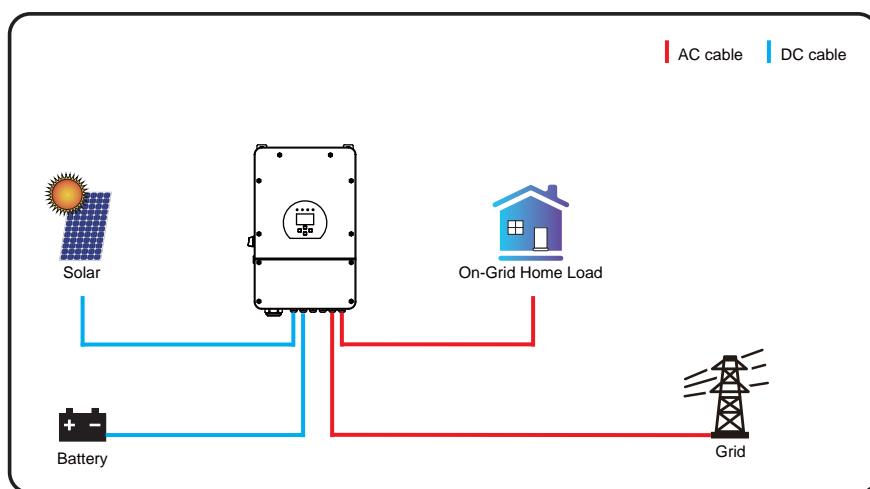
Energy generated by the inverter will not exceed your Home Load.

Customer needs to install the external CT.

Single Phase--need one Current sensor.
Split Phase--need two Current sensors.

when the battery is Full and you do not want to sell power to Grid, then you can turn on the Smart-Load function.

100% Self Consumption.



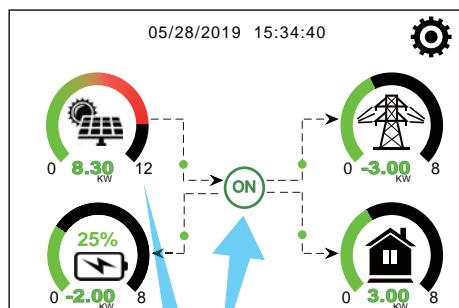
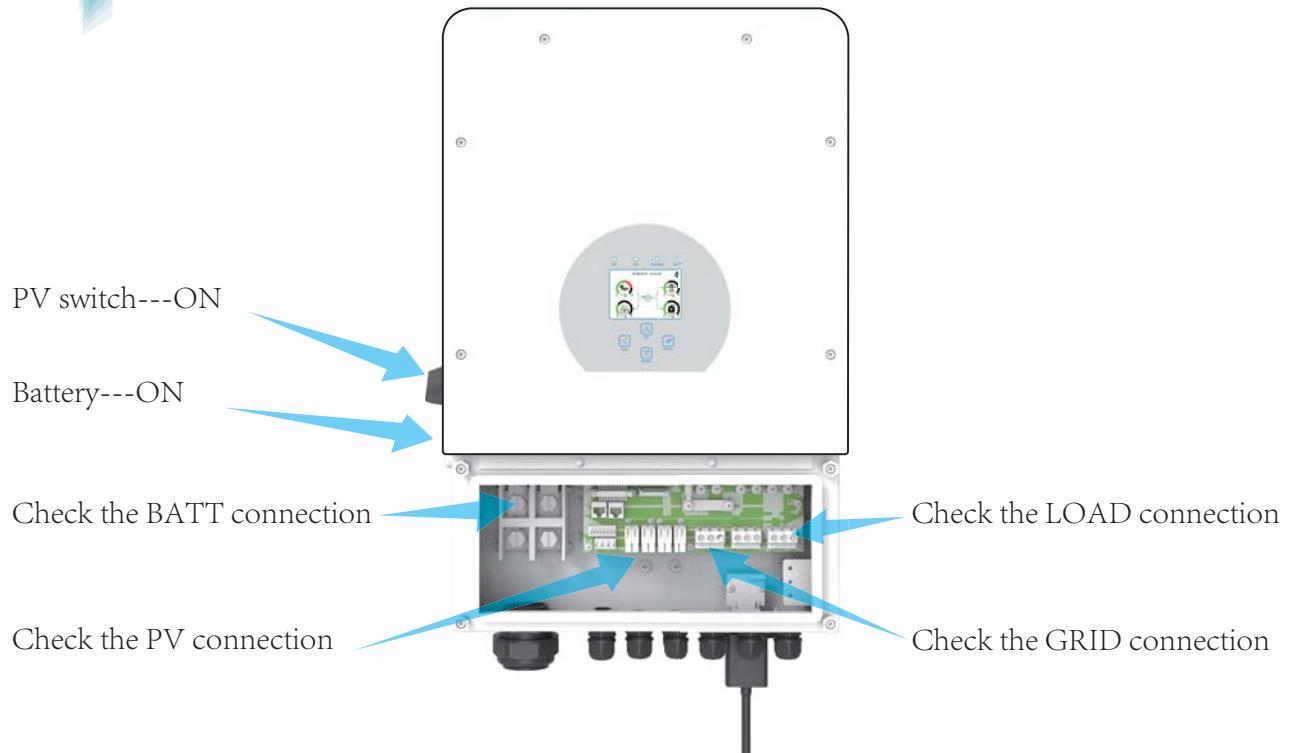
♦ Zeor-export to Load

Energy generated by the inverter will not exceed your Backup Load.Inverter has Integrated with Current Sensor.Do not need external CT.

when the battery is Full and energy does not need to be fed out to Grid,open Smart-Load.100% Self Consumption.



Zero-export

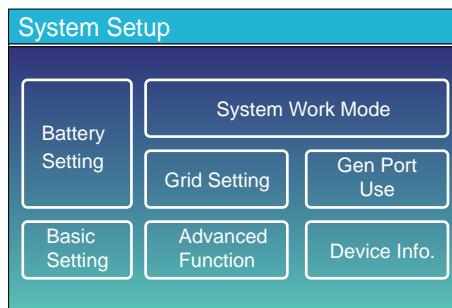


Inverter Running Status
ON: Inverter ON

OFF: Inverter OFF

Fxx: Alarm code Fxx

COMM.: Lost Communication with MCU



Battery Setting: Battery Mode, Charge&Discharge Current, Charge Voltage

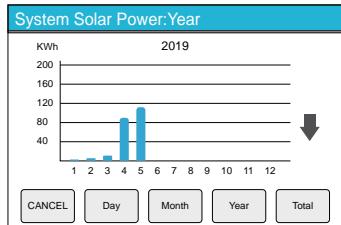
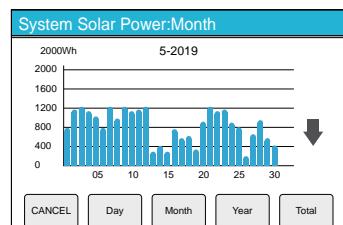
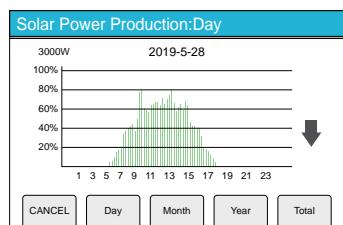
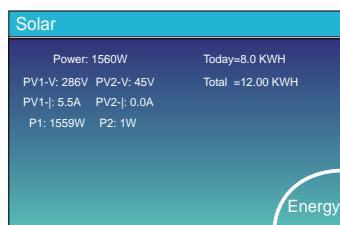
Basic Setting: Time, Beep, Factory Reset, Backlight, Lock out all changes

System Work Mode: Sell Grid, Zero-port to Load&Sell, Zero-port to CT&Sell,

Grid Setting: Grid mode, voltage type, frequency, PF

Gen Port Use: Generator input, Smart Load output, MI input.

Device Info: System version, ID, Alarm codes





Zero-export

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Battery Setting

Battery Setting

Batt Mode	Batt Capacity
<input checked="" type="radio"/> Lithium	400Ah
<input type="radio"/> Use Batt V	Max A Charge
<input type="radio"/> Use Batt %	Max A Discharge
<input type="radio"/> No Batt	40A
<input checked="" type="checkbox"/> Activate Battery	

- Batt Mode---Please select 1 2 3 batt mode.
 - 1.Lithium--Lithium Battery with BMS .
 - 2.Use Batt V--AGM Battery, System works according to voltage .
 - 3.Use Batt %--AGM Battery, System works according to SOC.
 - 4.NO Batt--System has no Battery,it becomes On-Grid inverter.
- Batt Capacity---Please select the right Capacity of your battery.
- Max. Charge&Discharge Current---0-185A
- Activate Battery---Enable

If you select Lithium

Battery Setting

Start (1) 30%	(2) 30%
A 40A	40A
<input type="checkbox"/> Gen Charge	<input type="checkbox"/> Grid Charge
<input type="checkbox"/> Gen Signal	<input type="checkbox"/> Grid Signal
Gen Max Run Time (3) 0.0 hours	
Gen Down Time (3) 0.5 hours	

- This is Generator Charge,if you don't have a generator, please ignore this part.
- Start =30%---It means that when the battery capacity is less than 30% and inverter is in the off-grid mode, the generator will start.
- A = 40A---It means the current that the generator charges the battery after its starting.
- Gen Charge---It means the switch that generator charges the battery.
- Gen Signal ---It means whether the generator's ATS signal is on or off.
- Gen Max RunTime ---It means the longest time that generator can run in a day.When time is up, the generator will be switched off. 24H shows that the generator will always be running without shutting down.
- Gen DownTime ---It means the delay time after the generator reaches the running time.

Battery Setting

Lithium Mode 00	
Shutdown 10%	
Low Batt 30%	
Restart 80%	

- This is Grid Charge, you need to select.
- Start =30%---no use, for customization.
- A = 40A---It means the current that the grid charges the battery.
- Gen Charge---It means the switch that the grid charges the battery.
- Gen Signal ---Disable

- Lithium Mode--This is BMS protocol,please reference the document (Approved Battery-Deye) .
- Shutdown 10%--the inverter will shutdown if the SOC below this value.
- Low Batt 30%--the inverter will alarm if the SOC below this value.
- Restart 80%--Restart level when inverter shutdown.

If you select Use Batt V

Battery Setting

Start (1) 49.0V	(2) 49.0V
A 40A	40A
<input type="checkbox"/> Gen Charge	<input type="checkbox"/> Grid Charge
<input type="checkbox"/> Gen Signal	<input type="checkbox"/> Grid Signal
Gen Max Run Time (3) 0.0 hours	
Gen Down Time (3) 0.5 hours	

- This is Generator Charge,If you do not have a generator, please ignore this part .
- Start =49V---It means when the battery volatge is less than 49V and the inverter is off-grid, the generator will start.
- A = 40A---It means the current that the generator charges the battery after starting-up.
- Gen Charge---It means the switch that the generator charges the battery.
- Gen Signal ---It indicates whether the generator's ATS signal is on or off.
- Gen Max RunTime ---It means the longest time that generator can run in a day.When time is up, the generator will be switched off. 24H means that it does not shut down all the time.
- Gen DownTime ---It means the delay time of the generator to shut down after it has reached the run time.



Zero-export

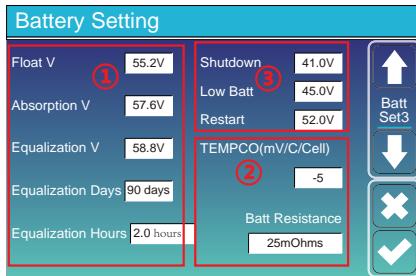
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Start =49V no use , for customization. (2)

A = 40A---It represents the current that the grid charges the battery. (2)

Grid Charge----It indicates the switch that the grid charges the battery. (2)

Grid Signal ---disable. (2)



These are 4 stages of charging the Battery . (1)

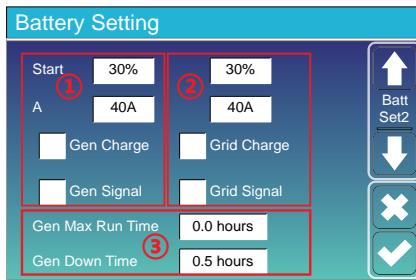
This is for professional installers,you can keep default if you do not know. (2)

Shutdown 41V--the inverter will shutdown if the Voltage below this value. (3)

Low Batt 45V--the inverter will Alarm if the Voltage below this value. (3)

Restart 52V--Restart level when inverter shutdown. (3)

If you select Use Batt %



This is Generator Charge,If you do not have a generator, please ignore this part . (1)

Start =30%---It means that when the battery capacity is less than 30% and the inverter is in the off-grid mode, the generator will start. (3)

A = 40A---It represents the current that the generator charges the battery after starting-up. (3)

Gen Charge---It represents the switch that the generator charges the battery. (3)

Gen Signal ---It indicates whether the generator's ATS signal is on or off. (3)

Gen Max RunTime ---It means the longest time that generator can run in a day. When time is up,the generator will be turned off. 24H means that it does not shut down all the time. (3)

Gen DownTime ---It represents the delay time of the generator to shut down after it has reached the running time. (3)

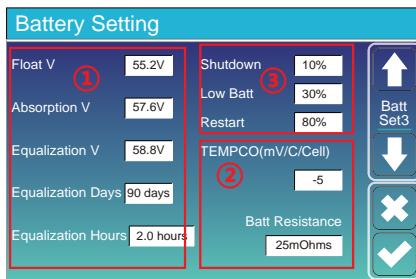
This is Grid Charge, you need select. (2)

Start =30%---no use , for customization. (2)

A = 40A---It represents the current that the grid charges the battery. (2)

Grid Charge---It represents the switch that the grid charges the battery. (2)

Grid Signal ---Disable (2)



These are 4 stages of charging the Battery. (1)

This is for professional installers,you can keep default if you do not know. (2)

Shutdown 10%--the inverter will shutdown if the SOC below this value. (3)

Low Batt 20% --the inverter will alarm if the SOC below this value. (3)

Restart 40% --Restart level when inverter shutdown. (3)



Zero-export

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System Work Mode

System Work Mode

Work Mode	<input checked="" type="radio"/> Selling First	①
	<input type="radio"/> Zero Export To Load	<input type="checkbox"/> Solar Sell ✓
	<input type="radio"/> Zero Export To CT	<input type="checkbox"/> Solar Sell ✓
Max Sell Power	4000	②
Energy pattern	<input checked="" type="checkbox"/> BattFirst	<input type="checkbox"/> LoadFirst

Zero Export To Home+ Disable Solar Sell

①

or Zero Export To Load+ Disable Solar Sell

Max. Sell Power---Modfiy by yourself.

BattFirst---Solar will charge the battery first,then to the load.

LoadFirst---Solar will feed-out to the load first,then to the battery.

System Work Mode

Grid Charge	Gen	Time Of Use	Batt
		Time	
<input type="checkbox"/>	<input type="checkbox"/>	01:00 ~ 5:00	80%
<input type="checkbox"/>	<input type="checkbox"/>	05:00 ~ 9:00	80%
<input type="checkbox"/>	<input type="checkbox"/>	09:00 ~ 13:00	80%
<input type="checkbox"/>	<input type="checkbox"/>	13:00 ~ 17:00	80%
<input type="checkbox"/>	<input type="checkbox"/>	17:00 ~ 21:00	80%
<input type="checkbox"/>	<input type="checkbox"/>	21:00 ~ 01:00	80%

Time of Use---Disable

Grid Setting

Grid Setting

Grid Mode	<input type="radio"/> General Standard
	<input checked="" type="radio"/> UL1741 & IEEE1547
	<input type="radio"/> CPUC RULE21
	<input type="radio"/> SRD-UL-1741
Grid Type	<input type="radio"/> 220V Single Phase
	<input checked="" type="radio"/> 120/240V Split Phase
	<input type="radio"/> 120/208V 3 Phase
	<input type="radio"/> 120V Single Phase

Please choose your local Grid Mode, if you are not sure, please choose General Standard. You must choose your local Grid Type correctly, otherwise the machine will not work or be damaged.

Grid Setting

Grid Frequency	<input checked="" type="radio"/> 50HZ	①
	<input type="radio"/> 60HZ	
Reconnection Time	60S	PF 1.000
Grid HZ High	60.5Hz	Grid Vol High 265.0V
Grid HZ Low	59.3Hz	Grid Vol Low 185.0V

UL1741&IEEE1547, CPUC RULE21, SRD-UL-1741

Don't need to set the value of this interface.

General Standard

① Please choose your local Grid Frequency.

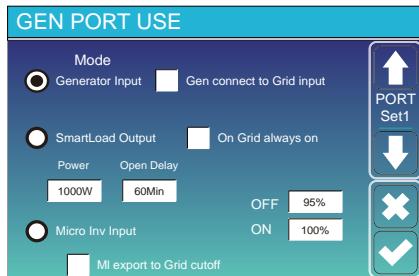
② You can keep this in default value.



Zero-export

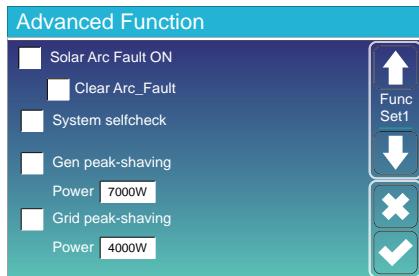
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Gen Port Use



No need to set the function of this interface.

Advanced Function



Solar Arc Fault ON---This is only for US.

System selfcheck---Disable. this is only for factory.

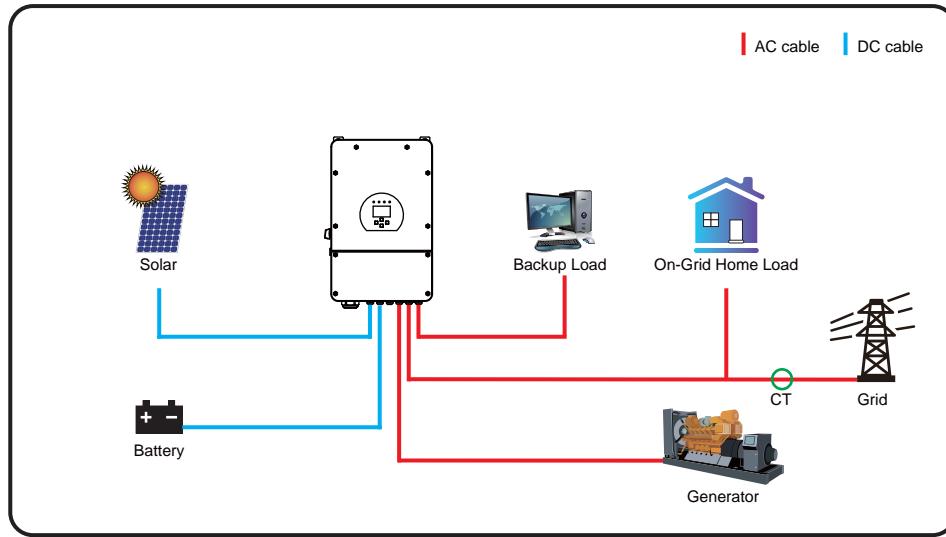
Gen Peak-shaving---Disable

Grid Peak-shaving---Disable When the power of the grid exceeds the rated value of it, the inverter will provide the redundant part to ensure that the grid will not overload.



Solar Sell + Time of Use + Generator

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◆Maximize Benefits,Six time of use

Increasing Self-Consumption & Control the Solar

During the Day, energy will charge the Battery. At night the Battery energy will feed to the Home-Load.

◆Peak Shaving-To Grid

You can enable Peak Shaving function, and set the peaking shaving power on the LCD or APP.

◆UPS,Power Supply for Important Loads

Connected to the backup side of the inverter, such as computers. When the grid fails, the system automatically switches to backup mode within 10ms.

◆Generator connector/ATS Single

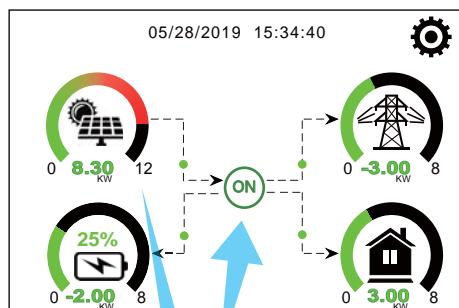
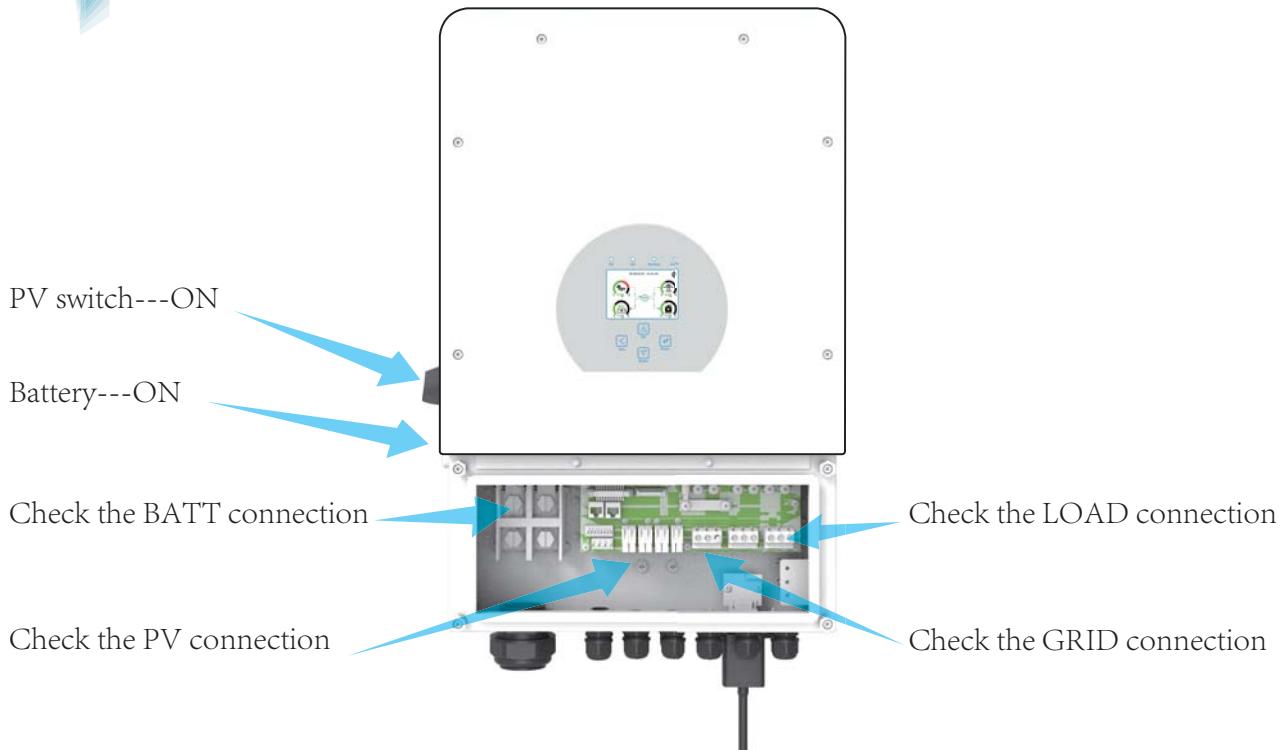
Automatically start and shutdown Generator---Microgrid.

◆Peak Shaving-To Generator

You can enable Peak Shaving function, and set the peaking shaving power on the LCD or APP.



Solar Sell + Time of Use + Generator

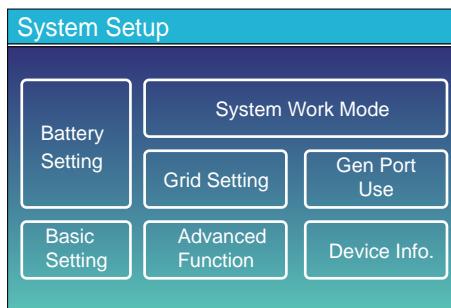


Inverter Running Status
ON: Inverter ON

OFF: Inverter OFF

Fxx: Alarm code Fxx

COMM.: Lost Communication with MCU



Battery Setting: Battery Mode, Charge&Discharge Current, Charge Voltage

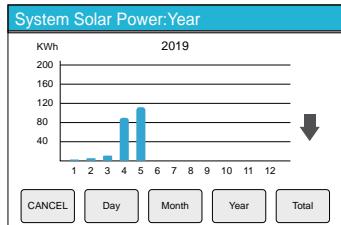
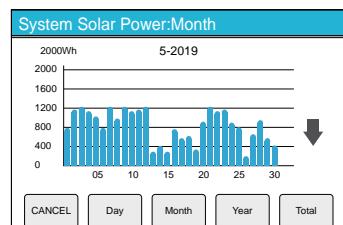
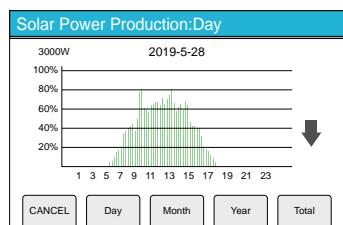
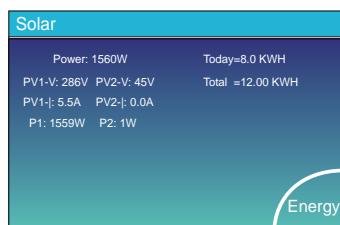
Basic Setting: Time, Beep, Factory Reset, Backlight, Lock out all changes

System Work Mode: Sell Grid, Zero-port to Load&Sell, Zero-port to CT&Sell,

Grid Setting: Grid mode, voltage type, frequency, PF

Gen Port Use: Generator input, Smart Load output, MI input.

Device Info: System version, ID, Alarm codes





Solar Sell + Time of Use + Generator

Battery Setting

Battery Setting

Batt Mode	
<input type="radio"/> Lithium	Batt Capacity
<input type="radio"/> Use Batt V	Max A Charge
<input type="radio"/> Use Batt %	Max A Discharge
<input type="radio"/> No Batt	<input checked="" type="checkbox"/> Activate Battery
<input style="margin-right: 10px;" type="button" value="Batt Mode"/> <input style="margin-right: 10px;" type="button" value="Set2"/> <input style="margin-right: 10px;" type="button" value="X"/> <input style="margin-right: 10px;" type="button" value="Checkmark"/>	

- Batt Mode---Please select 1 2 3 batt mode
 - 1.Lithium--Lithium Battery with BMS
 - 2.Use Batt V--AGM Battery, System work according to voltage
 - 3.Use Batt %--AGM Battery, System work according to SOC
 - 4.NO Batt--System has no Battery, it becomes On-Grid inverter
- Batt Capacity---Please enter the right Capacity of your battery
- Max. Charge&Discharge Current---0-185A
- Activate Battery---Enable

If you select Lithium

Battery Setting

Start ①	30%	②	30%
A	40A		40A
<input type="checkbox"/> Gen Charge		<input type="checkbox"/> Grid Charge	
<input type="checkbox"/> Gen Signal		<input type="checkbox"/> Grid Signal	
Gen Max Run Time	0.0 hours	③	
Gen Down Time	0.5 hours		
<input style="margin-right: 10px;" type="button" value="Batt Set2"/> <input style="margin-right: 10px;" type="button" value="X"/> <input style="margin-right: 10px;" type="button" value="Checkmark"/>			

This is Generator Charge, If you do not have a generator, please ignore this part.

① Start =30%---It means that when the battery capacity is less than 30% and the inverter is in the off-grid mode, the generator will start.

② A = 40A---It represents the current that the generator charges the battery after starting-up.

③ Gen Charge---It represents the switch that the generator charges the battery.

Gen Signal ---It indicates whether the generator's ATS signal is on or off.

Gen Max RunTime ---It means the longest time that generator can run in a day. When time is up, the generator will be switched off. 24H means that it does not shut down all the time.

Gen DownTime ---It means the delay time after the generator reaches the running time.

Battery Setting

Lithium Mode	00	<input style="margin-right: 10px;" type="button" value="Batt Set3"/>
Shutdown	10%	<input style="margin-right: 10px;" type="button" value="Down"/>
Low Batt	① 30%	<input style="margin-right: 10px;" type="button" value="X"/>
Restart	80%	<input style="margin-right: 10px;" type="button" value="Checkmark"/>
<input style="margin-right: 10px;" type="button" value="Up"/> <input style="margin-right: 10px;" type="button" value="X"/> <input style="margin-right: 10px;" type="button" value="Checkmark"/>		

④ This is Grid Charge, you need select.

Start =30%---no use, for customization.

A = 40A---It represents the current that the grid charges the battery.

Gen Charge---It represents the switch that the grid charges the battery.

Gen Signal ---Disable.

Lithium Mode--This is BMS protocol, please reference the document (Approved Battery-Deye) .

Shutdown 10%--the inverter will shutdown if the SOC below this value.

Low Batt 30%--the inverter will alarm if the SOC below this value.

Restart 80%--Restart level when inverter shutdown.

If you select Use Batt V

Battery Setting

Start ①	49.0V	②	49.0V
A	40A		40A
<input type="checkbox"/> Gen Charge		<input type="checkbox"/> Grid Charge	
<input type="checkbox"/> Gen Signal		<input type="checkbox"/> Grid Signal	
Gen Max Run Time	0.0 hours	③	
Gen Down Time	0.5 hours		
<input style="margin-right: 10px;" type="button" value="Batt Set2"/> <input style="margin-right: 10px;" type="button" value="Down"/> <input style="margin-right: 10px;" type="button" value="X"/> <input style="margin-right: 10px;" type="button" value="Checkmark"/>			

This is Generator Charge, If you do not have a generator, please ignore this part.

① Start =49V---It means that when the battery voltage is less than 49V and the inverter is in the off-grid mode, the generator will start.

② A = 40A---It represents the current that the generator charges the battery after starting-up.

③ Gen Charge---It represents the switch that the generator charges the battery.

Gen Signal ---It indicates whether the generator's ATS signal is on or off.

Gen Max RunTime ---It means the longest time that generator can run in a day. When time is up, the generator will be switched off. 24H means that it does not shut down all the time.

Gen DownTime ---It represents the delay time of the generator to shut down after it has reached the running time.



Solar Sell + Time of Use + Generator

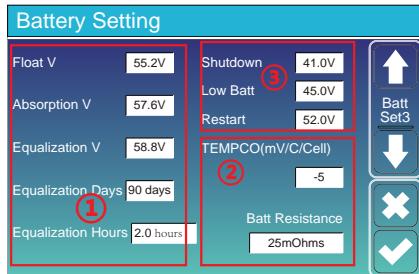
Deye 德業

Start =49V no use , for customization.

A = 40A---It represents the current that the grid charges the battery.

Grid Charge---It represents the switch that the grid charges the battery.

Grid Signal ---Disable.



These are 4 stages of charging the Battery .

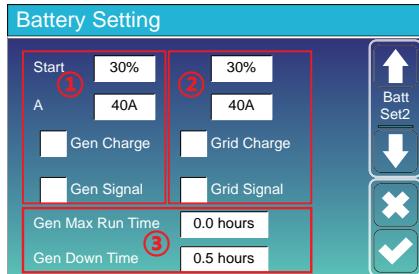
This is for professional installers,you can hold default if you do not know

Shutdown 41V--the inverter will shutdown if the Voltage below this value.

Low Batt 45V--the inverter will alarm if the Voltage below this value.

Restart 52V--Restart level when inverter shutdown.

If you select Use Batt %



This is Generator Charge,If you do not have a generator, please ignore this part .

Start =30%---It means that when the battery capacity is less than 30% and the inverter is off-grid, the generator will start.

A = 40A---It represents the current that the generator charges the battery after starting-up.

Gen Charge---Enable.It represents the switch that the generator charges the battery.

Gen Signal ---Enable.It indicates whether the generator's ATS signal is on or off.

Gen Max RunTime ---It means the longest time that generator can run in a day.When time is up, the generator will be switched off. 24H means that it does not shut down all the time.

Gen DownTime ---It means the delay time after the generator reaches the running time.

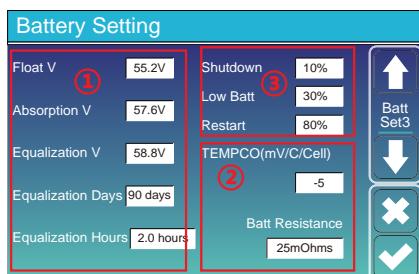
This is Grid Charge, you need select.

Start =30%---no use , for customization.

A = 40A---It represents the current that the grid charges the battery.

Gen Charge---It represents the switch that the grid charges the battery.

Gen Signal ---Disable



These are 4 stages of charging the Battery .

This is for professional installers,you can hold default if you do not know.

Shutdown 10%--the inverter will shutdown if the SOC below this value.

Low Batt 30% --the inverter will alarm if the SOC below this value.

Restart 80% --Restart level when inverter shutdown.



Solar Sell + Time of Use + Generator

System Work Mode

System Work Mode

Work Mode	<input checked="" type="radio"/> Selling First	<input type="radio"/> Zero Export To Load	<input type="checkbox"/> Solar Sell	①
	<input type="radio"/> Zero Export To CT	<input type="checkbox"/> Solar Sell	✓	
Max Sell Power	4000	②		
Energy pattern	<input checked="" type="checkbox"/> BattFirst	<input type="checkbox"/> LoadFirst		

Zero Export To Home+ Solar Sell
or Zero Export To Home+ Solar Sell ①

Max. Sell Power---Modify by yourself
BattFirst----Solar will charge the battery first,then to the load
LoadFirst----Solar will feed-out to the load first,then to the battery ②

System Work Mode

Grid Charge	Gen	<input type="checkbox"/> Time Of Use	Batt	
01:00	~	5:00	80%	
05:00	~	9:00	80%	
09:00	~	13:00	80%	
13:00	~	17:00	80%	
17:00	~	21:00	80%	
21:00	~	01:00	80%	

Time of Use---Enable
we have six time of use,Every time period must be from small to large.
Grid Charge---enable,When the actual SOC is smaller than the set value, the grid will charge the battery.
Grid Charge---Disable,The grid does not charge the battery.
Grid Charge---enable,When the actual SOC is smaller than the set value, the grid will charge the battery.
Grid Charge---Disable,The grid does not charge the battery.

Grid Setting

Grid Setting

Grid Mode	<input checked="" type="radio"/> General Standard	<input type="radio"/> UL1741 & IEEE1547	<input type="radio"/> CPUC RULE21	<input type="radio"/> SRD-UL-1741	<input type="checkbox"/> Grid Set1
Grid Type	<input checked="" type="radio"/> 220V Single Phase	<input type="radio"/> 120/240V Split Phase	<input type="radio"/> 120/208V 3 Phase	<input type="radio"/> 120V Single Phase	<input type="checkbox"/> Grid Set2

Please select the correct Grid Mode in your local area. If you are not sure, please choose General Standard.
Please select the correct Grid Type in your local area,otherwise the machine will not work or be damaged.

Grid Setting

Grid Frequency	<input checked="" type="radio"/> 50HZ	<input type="radio"/> 60HZ	<input type="checkbox"/> Grid Set2	
Reconnection Time	60S	PF 1.000	<input type="checkbox"/> Grid Set2	
Grid HZ High	60.5Hz	Grid Vol High	265.0V	<input type="checkbox"/> Grid Set2
Grid HZ Low	59.3Hz	Grid Vol Low	185.0V	<input type="checkbox"/> Grid Set2

UL1741&IEEE1547, CPUC RULE21, SRD-UL-1741

No need to set the function of this interface.

General Standard

① Please select the correct Grid Frequency in your local area.

② You can keep this in default value.

GEN PORT USE

Mode	<input checked="" type="radio"/> Generator Input	<input type="checkbox"/> Gen connect to Grid input	<input type="checkbox"/> PORT Set1
SmartLoad Output	<input type="radio"/>	<input type="checkbox"/> On Grid always on	<input type="checkbox"/> PORT Set1
Power	1000W	Open Delay 60Min	<input type="checkbox"/> PORT Set1
Micro Inv Input	<input type="checkbox"/> MI export to Grid cutoff	OFF 95%	<input type="checkbox"/> PORT Set1
		ON 100%	<input type="checkbox"/> PORT Set1

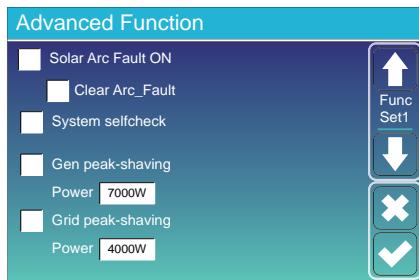
Generator Input---Enable



Solar Sell + Time of Use + Generator

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Advanced Function



Solar Arc Fault ON---This is only for US.

System selfcheck---Disable. this is only for factory.

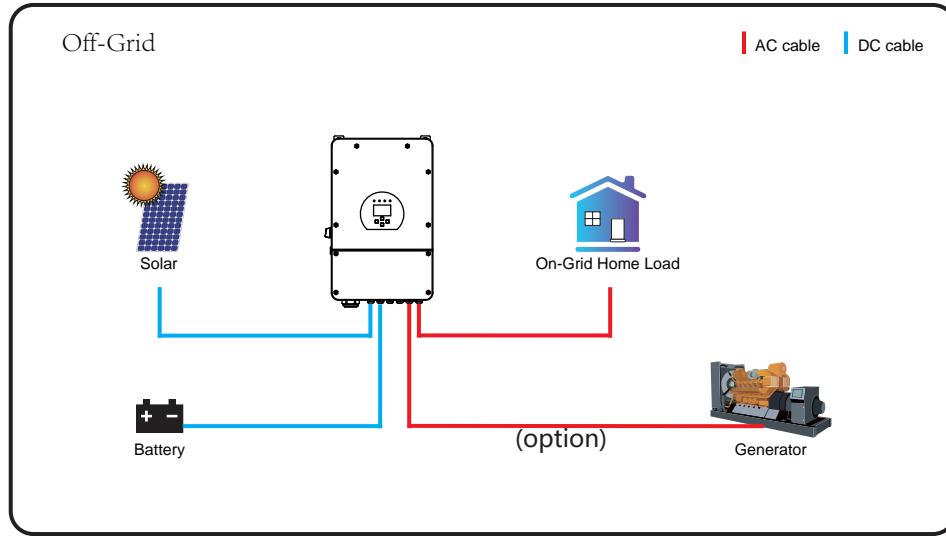
Gen Peak-shaving---Enable When the power of the generator exceeds the rated value of it, the inverter will provide the redundant part to ensure that the generator will not overload.

Grid Peak-shaving---Enable When the power of the grid exceeds the set value, the inverter will provide the redundant part to ensure that the grid power does not exceed the set value.



Off-Grid + Generator

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- ◆ 48V Battery DC/DC Isolated
- ◆ 230V Single Phase, 120/240V Split Phase
- ◆ Peak Power 16000W 10S
- ◆ Up to 185A Fast Charge Form Generator @95.5% Efficiency
- ◆ Peak-Shaving to Generator
- ◆ Generator Max Run Time and Down Time
- ◆ ATS Single



Off-Grid + Generator

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Battery Setting

Battery Setting

Batt Mode	
<input checked="" type="radio"/> Lithium	Batt Capacity
<input type="radio"/> Use Batt V	Max A Charge
<input type="radio"/> Use Batt %	Max A Discharge
<input type="radio"/> No Batt	<input checked="" type="checkbox"/> Activate Battery
<input style="margin-right: 10px;" type="button" value="Batt Mode"/> <input style="margin-top: 10px;" type="button" value="Set"/>	

- Batt Mode---Please select 1 2 3 batt mode
 - 1.Lithium--Lithium Battery with BMS
 - 2.Use Batt V--AGM Battery, System work according to voltage
 - 3.Use Batt %--AGM Battery, System work according to SOC
 - 4.NO Batt--System have no Battery, it is become On-Grid inverter
- Batt Capacity---Please enter the right Capacity of your battery
- Max. Charge&Discharge Current---0-185A
- Activate Battery---Enable

If you select Lithium

Battery Setting

Start (1)	30%	(2)	30%
A	40A		40A
<input type="checkbox"/> Gen Charge		<input type="checkbox"/> Grid Charge	
<input type="checkbox"/> Gen Signal		<input type="checkbox"/> Grid Signal	
Gen Max Run Time (3)	0.0 hours		
Gen Down Time	0.5 hours		
<input style="margin-right: 10px;" type="button" value="Batt Set2"/> <input style="margin-top: 10px;" type="button" value="Set"/>			

- This is Generator Charge, If you do not have a generator, please ignore this part .
- Start =30%---It means that when the battery capacity is less than 30% and the inverter is in the off-grid mode, the generator will start.
- A = 40A---It represents the current that the generator charges the battery after starting-up.
- Gen Charge---It represents the switch that the generator charges the battery.
- Gen Signal ---It indicates whether the generator's ATS signal is on or off.
- Gen Max RunTime ---It means the longest time that generator can run in a day. When time is up, the generator will be switched off. 24H means that it does not shut down all the time.
- Gen DownTime ---It represents the delay time of the generator to shut down after it has reached the running time.

Battery Setting

Lithium Mode	00
Shutdown	10%
Low Batt	30%
Restart	80%
<input style="margin-right: 10px;" type="button" value="Batt Set3"/> <input style="margin-top: 10px;" type="button" value="Set"/>	

- This is Grid Charge, On-Grid only
- Start =30%---no use , for customization.
- A = 40A---It represents the current that the grid charges the battery.
- Gen Charge---It represents the switch that the grid charges the battery.
- Gen Signal ---Disable
- Lithium Mode--This is BMS protocol,please reference the document (Approved Battery-Deye) .
- Shutdown 10%--the inverter will shutdown if the SOC below this value.
- Low Batt 30%--the inverter will alarm if the SOC below this value.
- Restart 80%--Restart level when inverter shutdown.

If you select Use Batt V

Battery Setting

Start (1)	49.0V	(2)	49.0V
A	40A		40A
<input type="checkbox"/> Gen Charge		<input type="checkbox"/> Grid Charge	
<input type="checkbox"/> Gen Signal		<input type="checkbox"/> Grid Signal	
Gen Max Run Time (3)	0.0 hours		
Gen Down Time	0.5 hours		
<input style="margin-right: 10px;" type="button" value="Batt Set2"/> <input style="margin-top: 10px;" type="button" value="Set"/>			

- This is Generator Charge, If you do not have a generator, please ignore this part .
- Start =49V---It means that when the battery voltage is less than 49V and the inverter is off-grid, the generator will start.
- A = 40A---It represents the current that the generator charges the battery after starting-up.
- Gen Charge---It represents the switch that the generator charges the battery.
- Gen Signal ---It indicates whether the generator's ATS signal is on or off.
- Gen Max RunTime ---It means the longest time that generator can run in a day. When time is up, the generator will be switched off. 24H means that it does not shut down all the time.
- Gen DownTime ---It represents the delay time of the generator to shut down after it has reached the running time.



Off-Grid + Generator

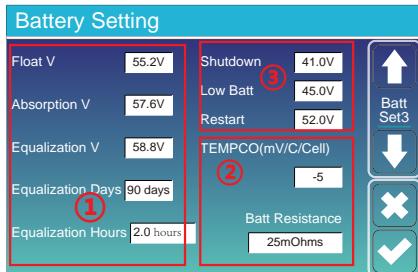
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Start =49V no use, for customization. (2)

A = 40A---It represents the current that the grid charges the battery.

Gen Charge----It represents the switch that the grid charges the battery.

Gen Signal ---It indicates whether the grid's ATS signal is on or off.



These are 4 stages of charging the Battery. (1)

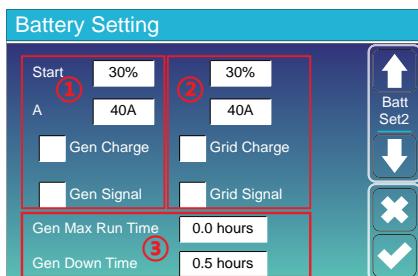
This is for professional installers,you can keep default if you do not know (2)

Shutdown 41V--the inverter will shutdown if the Voltage below this value. (3)

Low Batt 45V --the inverter will alarm if the Voltage below this value.

Restart 52V--Restart level when inverter shutdown.

If you select Use Batt %



This is Generator Charge,If you do not have a generator, please ignore this part. (1)

Start =30%---It means that when the battery capacity is less than 30% and the inverter is off-grid, the generator will start. (3)

A = 40A---It represents the current that the generator charges the battery after starting-up.

Gen Charge---It represents the switch that the generator charges the battery.

Gen Signal ---It indicates whether the generator's ATS signal is on or off.

Gen Max RunTime ---It means the longest time that generator can run in a day.When time is up, the generator will be switched off. 24H means that it does not shut down all the time.

Gen DownTime ---It represents the delay of the generator to shut down after it has reached the running time. (2)

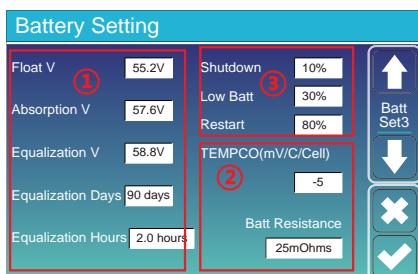
This is Grid Charge, you need select. (2)

Start =30%---no use, for customization.

A = 40A---It represents the current that the grid charges the battery.

Gen Charge---It represents the switch that the grid charges the battery.

Gen Signal ---Disable



These are 4 stages of charging the Battery. (1)

This is for professional installers,you can hold default if you do not know. (2)

Shutdown 10%--the inverter will shutdown if the SOC below this value. (3)

Low Batt 20% --the inverter will alarm if the SOC below this value.

Restart 40% --Restart level when inverter shutdown.



Off-Grid + Generator

System Work Mode

System Work Mode

Work Mode		
<input checked="" type="radio"/> Selling First	<input type="checkbox"/> Solar Sell	
<input type="radio"/> Zero Export To Load	<input type="checkbox"/> Solar Sell	
<input type="radio"/> Zero Export To CT	<input type="checkbox"/> Solar Sell	
Max Sell Power	4000	
Energy pattern	<input checked="" type="checkbox"/> BattFirst	<input type="checkbox"/> LoadFirst

In Off-Grid mode, Don't need to set this page.

System Work Mode

Grid Charge	Gen	<input type="checkbox"/> Time Of Use	Time	Batt	
01:00	~	5:00	80%		
05:00	~	9:00	80%		
09:00	~	13:00	80%		
13:00	~	17:00	80%		
17:00	~	21:00	80%		
21:00	~	01:00	80%		

In Off-Grid mode, Don't need to set this page.

Grid Setting

Grid Setting

Grid Mode	<input checked="" type="radio"/> General Standard	
	<input checked="" type="radio"/> UL1741 & IEEE1547	
	<input type="radio"/> CPUC RULE21	
	<input type="radio"/> SRD-UL-1741	
Grid Type	<input type="radio"/> 220V Single Phase	
	<input checked="" type="radio"/> 120/240V Split Phase	
	<input type="radio"/> 120/208V 3 Phase	
	<input type="radio"/> 120V Single Phase	

Grid Mode---Select General Standard

Grid Type---Please select the correct Grid Type in your local area.

Grid Setting

Grid Frequency	<input checked="" type="radio"/> 50HZ		
	<input type="radio"/> 60HZ		
Reconnection Time	60S	PF	1.000
Grid HZ High	60.5Hz	Grid Vol High	265.0V
Grid HZ Low	59.3Hz	Grid Vol Low	185.0V

① Please select the correct Grid Frequency in your local area.

② You can hole this in default value.

Gen Port Use

GEN PORT USE

Mode	<input checked="" type="radio"/> Generator Input	<input type="checkbox"/> Gen connect to Grid input	
	<input type="radio"/> SmartLoad Output	<input type="checkbox"/> On Grid always on	
Power	Open Delay		
1000W	60Min	OFF 95%	
		ON 100%	
<input type="radio"/> Micro Inv Input	<input type="checkbox"/> MI export to Grid cutoff		

Generator Input---Enable



Off-Grid + Generator

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Advanced Function

Advanced Function

- Solar Arc Fault ON
 - Clear Arc_Fault
- System selfcheck
- Gen peak-shaving
 - Power 7000W
- Grid peak-shaving
 - Power 4000W



Solar Arc Fault ON---This is only for US.

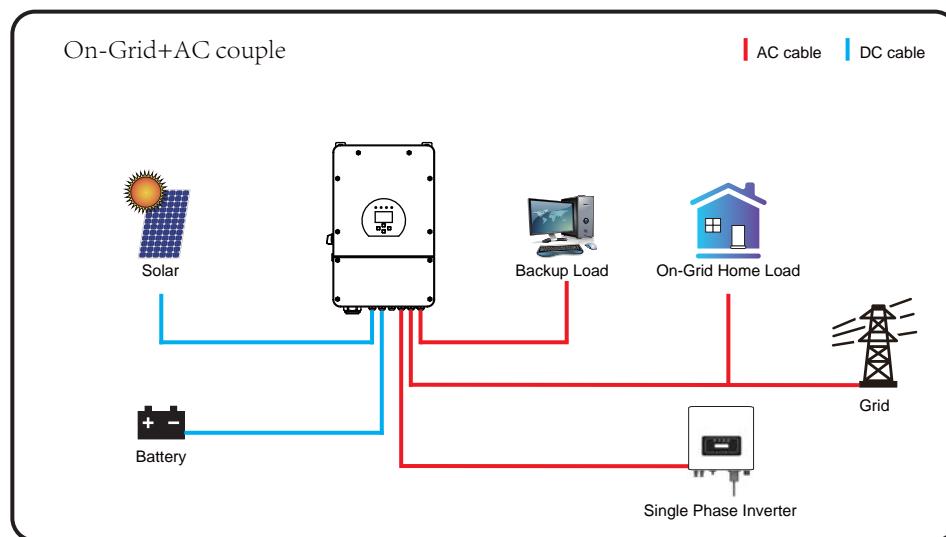
System selfcheck---Disable. this is only for factory.

Gen Peak-shaving---Enable When the power of the generator exceeds the rated value of it, the inverter will provide the redundant part to ensure that the generator will not overload.

Grid Peak-shaving---Disable

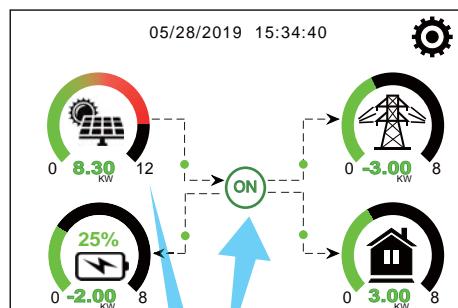
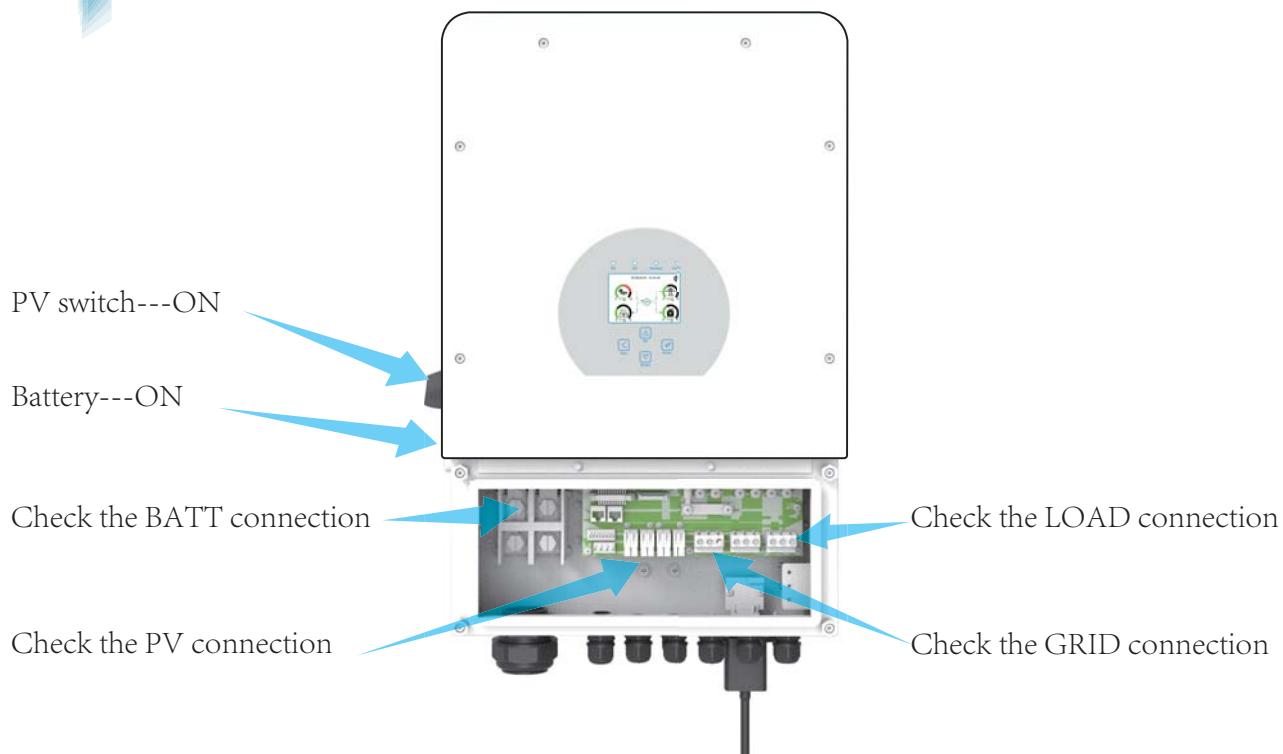


Microinverter AC couple (On-Grid/Off-Grid)





Microinverter AC couple (On-Grid/Off-Grid)

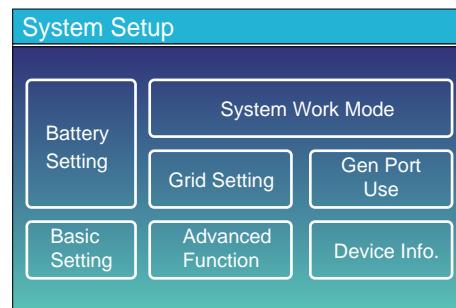


Inverter Running Status
ON: Inverter ON

OFF: Inverter OFF

Fxx: Alarm code Fxx

COMM.: Lost Communication with MCU



Battery Setting: Battery Mode, Charge & Discharge Current, Charge Voltage

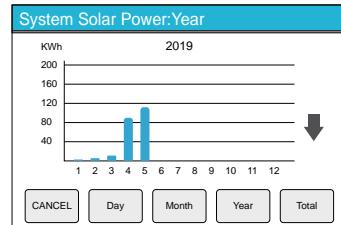
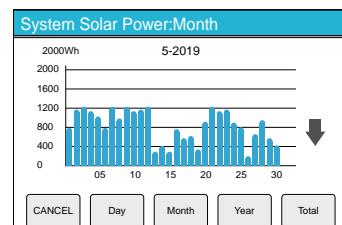
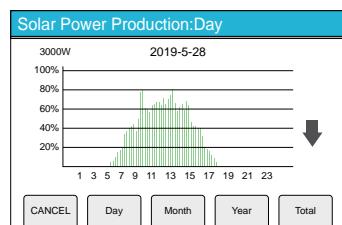
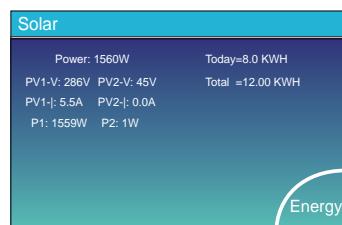
Basic Setting: Time, Beep, Factory Reset, Backlight, Lock out all changes

System Work Mode: Sell Grid, Zero-port to Load & Sell, Zero-port to CT & Sell,

Grid Setting: Grid mode, voltage type, frequency, PF

Gen Port Use: Generator input, Smart Load output, MI input.

Device Info: System version, ID, Alarm codes





Microinverter AC couple (On-Grid/Off-Grid)

Battery Setting

Battery Setting

Batt Mode	
<input checked="" type="radio"/> Lithium	Batt Capacity
<input type="radio"/> Use Batt V	Max A Charge
<input type="radio"/> Use Batt %	Max A Discharge
<input type="radio"/> No Batt	<input checked="" type="checkbox"/> Activate Battery

- Batt Mode---Please select 1 2 3 batt mode
 - 1.Lithium--Lithium Battery with BMS
 - 2.Use Batt V--AGM Battery, System works according to voltage
 - 3.Use Batt %--AGM Battery, System works according to SOC
 - 4.NO Batt--System have no Battery, it becomes On-Grid inverter
- Batt Capacity---Please enter the right Capacity of your battery
- Max. Charge&Discharge Current---0-185A
- Activate Battery---Enable

If you select Lithium

Battery Setting

Start ①	30%	②	30%
A	40A		40A
<input type="checkbox"/> Gen Charge		<input type="checkbox"/> Grid Charge	
<input type="checkbox"/> Gen Signal		<input type="checkbox"/> Grid Signal	
Gen Max Run Time ③	0.0 hours		
Gen Down Time ④	0.5 hours		

- This is Generator Charge, If you do not have a generator, please ignore this part.
- Start =30%---It means that when the battery capacity is less than 30% and the inverter is off-grid, the generator will start.
- A = 40A---It represents the current that the generator charges the battery after starting-up.
- Gen Charge---It represents the switch that the generator charges the battery.
- Gen Signal ---It indicates whether the generator's ATS signal is on or off.
- Gen Max RunTime ---It means the longest time that generator can run in a day. When time is up, the generator will be switched off. 24H means that it does not shut down all the time.
- Gen DownTime ---It represents the delay of the generator to shut down after it has reached the run time.

Battery Setting

Lithium Mode	00
Shutdown	10%
Low Batt	30%
Restart	80%

- This is Grid Charge, you need select
- Start =30%---no use, for customization.
- A = 40A---It represents the current that the grid charges the battery.
- Grid Charge---It represents the switch that the grid charges the battery.
- Grid Signal ---Disable
- Lithium Mode--This is BMS protocol, please reference the document (Approved Battery-Deye) .
- Shutdown 10%--the inverter will shutdown if the SOC below this value.
- Low Batt 20%--the inverter will alarm if the SOC below this value.
- Restart 40%--Restart level when inverter shutdown

If you select Use Batt V

Battery Setting

Start ①	49.0V	②	49.0V
A	40A		40A
<input type="checkbox"/> Gen Charge		<input type="checkbox"/> Grid Charge	
<input type="checkbox"/> Gen Signal		<input type="checkbox"/> Grid Signal	
Gen Max Run Time ③	0.0 hours		
Gen Down Time ④	0.5 hours		

- This is Generator Charge, If you do not have a generator, please ignore this part.
- Start =30%---It means that when the battery capacity is less than 30% and the inverter is off-grid, the generator will start.
- A = 40A---It represents the current that the generator charges the battery after starting-up.
- Gen Charge---It represents the switch that the generator charges the battery.
- Gen Signal ---It indicates whether the generator's ATS signal is on or off.
- Gen Max RunTime ---It means the longest time that generator can run in a day. When time is up, the generator will be switched off. 24H means that it does not shut down all the time.
- Gen DownTime ---It represents the delay of the generator to shut down after it has reached the running time.



Microinverter AC couple (On-Grid/Off-Grid)

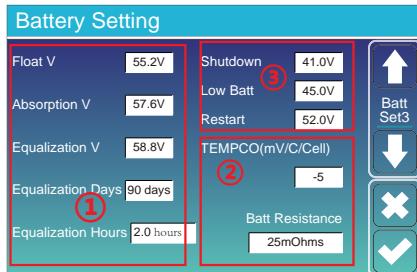
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Start =49V no use , for customization. (2)

A = 40A---It represents the current that the grid charges the battery.

Gen Charge----It represents the switch that the grid charges the battery.

Gen Signal ---It indicates whether the grid's ATS signal is on or off.



These are 4 stages of charging the Battery voltage. (1)

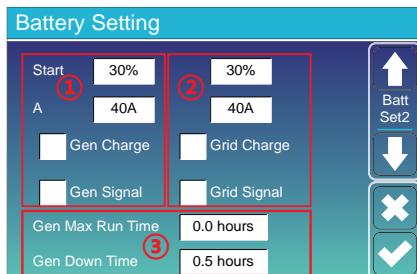
This is for professional installers,you can hold default if you do not know. (2)

Shutdown 41V--the inverter will shutdown if the Voltage below this value. (3)

Low Batt 45V --the inverter will shutdown if the Voltage below this value.

Restart 52V--Restart level when inverter shutdown

If you select Use Batt %



This is Generator Charge,If you do not have a generator, please ignore this part. (1)

Start =30%---It means that when the battery capacity is less than 30% and the inverter is off-grid, the generator will start. (3)

A = 40A---It represents the current that the generator charges the battery after starting-up.

Gen Charge---It represents the switch that the generator charges the battery.

Gen Signal ---It indicates whether the generator's ATS signal is on or off.

Gen Max RunTime ---It means the longest time that generator can run in a day.When time is up, the generator will be switched off. 24H means that it does not shut down all the time.

Gen DownTime ---It represents the delay of the generator to shut down after it has reached the running time. (2)

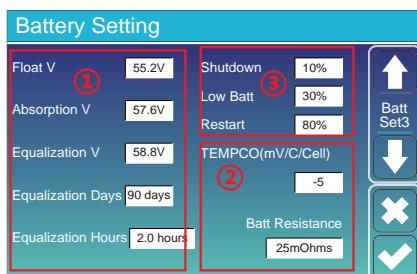
This is Grid Charge. (2)

Start =30%---no use , for customization.

A = 40A---It represents the current that the grid charges the battery.

Grid Charge---It represents the switch that the grid charges the battery.

Grid Signal ---Disable.



These are 4 stages of charging the Battery . (1)

This is for professional installers,you can hold default if you do not know. (2)

Shutdown 10%--the inverter will shutdown if the SOC below this value. (3)

Low Batt 20% --the inverter will alarm if the SOC below this value.

Restart 40% --Restart level when inverter shutdown.



Microinverter AC couple (On-Grid/Off-Grid)

System Work Mode

System Work Mode

Work Mode	<input checked="" type="radio"/> Selling First	<input type="radio"/> Zero Export To Load <input type="checkbox"/> Solar Sell ✓	<input type="radio"/> Zero Export To CT <input type="checkbox"/> Solar Sell ✓
Max Sell Power	4000	②	
Energy pattern	<input checked="" type="checkbox"/> BattFirst	<input type="checkbox"/> LoadFirst	

Work Mode1
Work Mode2
X
✓

Zero Export To Home+ Solar Sell
or Zero Export To Home+ Solar Sell ①

Max. Sell Power---Modify by yourself.
BattFirst----Pv will charge the battery first,then to the load.
LoadFirst----Pv will feed-out to the load first,then to the battery. ②

System Work Mode

Grid Charge	Gen	<input type="checkbox"/> Time Of Use	Time	Batt
01:00	~	5:00	80%	
05:00	~	9:00	80%	
09:00	~	13:00	80%	
13:00	~	17:00	80%	
17:00	~	21:00	80%	
21:00	~	01:00	80%	

Time of Use----Enable
we have six time of use,Every time period must be from small to large.
Grid Charge---enable,When the actual SOC is smaller than the set value, the grid will charge the battery.
Grid Charge---Disable,The grid does not charge the battery.
Grid Charge---enable,When the actual SOC is smaller than the set value, the grid will charge the battery.
Grid Charge---Disable,The grid does not charge the battery.

Grid Setting

Grid Setting

Grid Mode	<input checked="" type="radio"/> General Standard	<input type="radio"/> UL1741 & IEEE1547	<input type="radio"/> CPUC RULE21	<input type="radio"/> SRD-UL-1741
Grid Type	<input checked="" type="radio"/> 220V Single Phase	<input type="radio"/> 120/240V Split Phase	<input type="radio"/> 120/208V 3 Phase	<input type="radio"/> 120V Single Phase

Grid Set1
Grid Set2
X
✓

Please select the correct Grid Mode in your local area. If you are not sure, please choose General Standard.
Please select the correct Grid Type in your local area,otherwise the machine will not work or be damaged.

Grid Setting

Grid Frequency	<input checked="" type="radio"/> 50Hz	<input type="radio"/> 60Hz
Reconnection Time	60S	PF 1.000
Grid HZ High	60.5Hz	Grid Vol High 265.0V
Grid HZ Low	59.3Hz	Grid Vol Low 185.0V

Grid Set2
X
✓

UL1741&IEEE1547, CPUC RULE21, SRD-UL-1741
No need to set the function of this interface.
General Standard
① Please select the correct Grid Frequency in your local area.
② You can keep this in default value.

Gen Port Use

GEN PORT USE

Mode	<input checked="" type="radio"/> Generator Input	<input type="checkbox"/> Gen connect to Grid input
SmartLoad Output	<input type="radio"/>	<input type="checkbox"/> On Grid always on
Power	1000W	Open Delay 60Min
Micro Inv Input	OFF 95%	ON 100%
<input type="checkbox"/> MI export to Grid cutoff		

PORT Set1
PORT Set2
X
✓

Micro Inv Input---Enable



Microinverter AC couple (On-Grid/Off-Grid)

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Advanced Function

Advanced Function

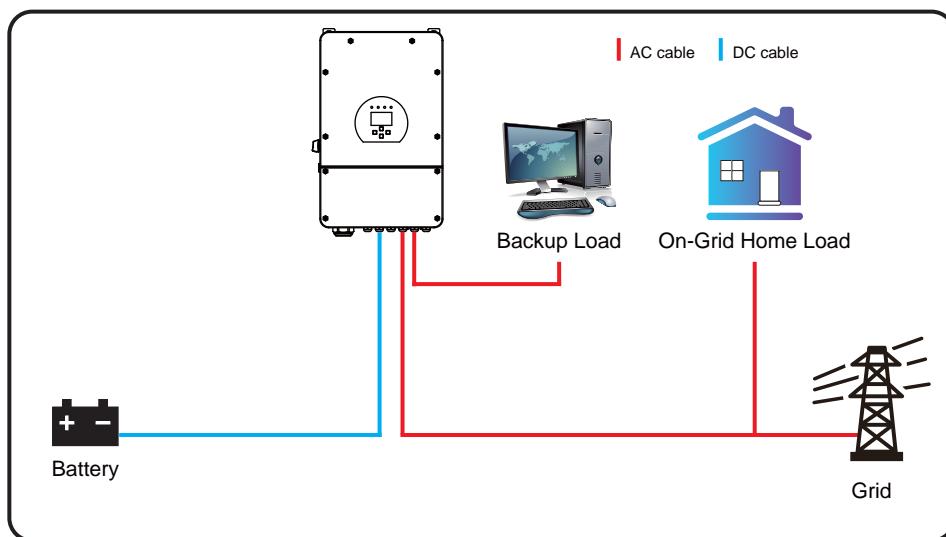
- Solar Arc Fault ON
 - Clear Arc_Fault
- System selfcheck
- Gen peak-shaving
 - Power
- Grid peak-shaving
 - Power



Solar Arc Fault ON---This is only for US.
System selfcheck---Disable, this is only for factory.
Gen Peak-shaving---Disable
Grid Peak-shaving---Disable, inverter will provide redundant parts to ensure that the grid power does not exceed the set value in this interface.



Peak valley electricity





Peak valley electricity

Battery Setting

Battery Setting

Batt Mode	
<input checked="" type="radio"/> Lithium	Batt Capacity 400Ah
<input type="radio"/> Use Batt V	Max A Charge 40A
<input type="radio"/> Use Batt %	Max A Discharge 40A
<input type="radio"/> No Batt	<input checked="" type="checkbox"/> Activate Battery

- Batt Mode---Please select 1 2 3 batt mode
 - 1.Lithium--Lithium Battery with BMS.
 - 2.Use Batt V--AGM Battery, System work according to voltage.
 - 3.Use Batt %--AGM Battery, System work according to SOC.
 - 4.NO Batt--System has no Battery, it becomes On-Grid inverter.
- Batt Capacity---Please enter the right Capacity of your battery.
- Max. Charge&Discharge Current---0-185A.
- Activate Battery---Enable .

If you select Lithium

Battery Setting

Start ① 30%	② 30%
A 40A	40A
<input type="checkbox"/> Gen Charge	<input type="checkbox"/> Grid Charge
<input type="checkbox"/> Gen Signal	<input type="checkbox"/> Grid Signal
Gen Max Run Time ③ 0.0 hours	0.5 hours
Gen Down Time ④ 0.5 hours	

- This is Generator Charge, If you do not have a generator, please ignore this part .
- Start =30%---It means that when the battery capacity is less than 30% and the inverter is off-grid, the generator will start.
- A = 40A---It represents the current that the generator charges the battery after starting-up.
- Gen Charge---It represents the switch that the generator charges the battery.
- Gen Signal ---It indicates whether the generator's ATS signal is on or off.
- Gen Max RunTime ---It means the longest time that generator can run in a day. When time is up, the generator will be switched off. 24H means that it does not shut down all the time.
- Gen DownTime ---It represents the delay of the generator to shut down after it has reached the running time.

Battery Setting

Lithium Mode 00	
Shutdown ④ 10%	
Low Batt ③ 30%	
Restart 80%	

- This is Grid Charge, you need select
- Start =30%---no use , for customization.
- A = 40A---It represents the current that the grid charges the battery.
- Gen Charge---It represents the switch that the grid charges the battery.
- Gen Signal ---Disable.
- Lithium Mode--This is BMS protocol, please reference the document (Approved Battery-Deye) .
- Shutdown 10%--the inverter will shutdown if the SOC below this value.
- Low Batt 20%--the inverter will alarm if the SOC below this value.
- Restart 40%--Restart level when inverter shutdown.

If you select Use Batt V

Battery Setting

Start ① 49.0V	② 49.0V
A 40A	40A
<input type="checkbox"/> Gen Charge	<input type="checkbox"/> Grid Charge
<input type="checkbox"/> Gen Signal	<input type="checkbox"/> Grid Signal
Gen Max Run Time ③ 0.0 hours	0.5 hours
Gen Down Time ④ 0.5 hours	

- This is Generator Charge, If you do not have a generator, please ignore this part .
- Start =30%---It means that when the battery capacity is less than 30% and the inverter is off-grid, the generator will start.
- A = 40A---It represents the current that the generator charges the battery after starting-up.
- Gen Charge---It represents the switch that the generator charges the battery.
- Gen Signal ---It indicates whether the generator's ATS signal is on or off.
- Gen Max RunTime ---It means the longest time that generator can run in a day. When time is up, the generator will be switched off. 24H means that it does not shut down all the time.
- Gen DownTime ---It represents the delay of the generator to shut down after it has reached the running time.



Peak valley electricity

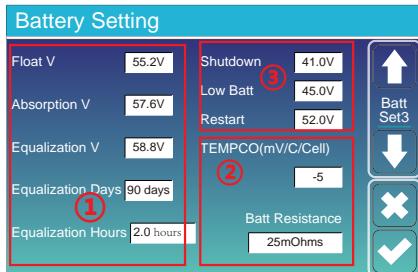
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Start =49V no use, for customization. (2)

A = 40A---It represents the current that the grid charges the battery.

Gen Charge----It represents the switch that the grid charges the battery.

Gen Signal ---It indicates whether the grid's ATS signal is on or off.



This is Battery 4 tages charge voltage. (1)

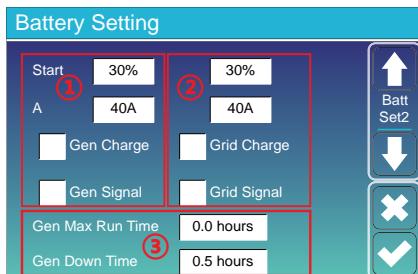
This is for professional installers,you can hold default if you do not know. (2)

Shutdown 41V--the inverter will shutdown if the Voltage below this value. (3)

Low Batt 45V --the inverter will shutdown if the Voltage below this value.

Restart 52V--Restart level when inverter shutdown.

If you select Use Batt %



This is Generator Charge,If you do not have a generator, please ignore this part. (1)

Start =30%---It means that when the battery capacity is less than 30% and the inverter is off-grid, the generator will start. (3)

A = 40A---It represents the current that the generator charges the battery after starting-up.

Gen Charge---It represents the switch that the generator charges the battery.

Gen Signal ---It indicates whether the generator's ATS signal is on or off.

Gen Max RunTime ---It means the longest time that generator can run in a day.When time is up, the generator will be switched off. 24H means that it does not shut down all the time.

Gen DownTime ---It represents the delay of the generator to shut down after it has reached the running time. (2)

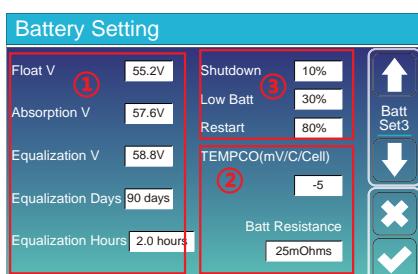
This is Grid Charge. (2)

Start =30%---no use, for customization.

A = 40A---It represents the current that the grid charges the battery.

Gen Charge---It represents the switch that the grid charges the battery.

Gen Signal ---Disable.



These are 4 stages of charging the Battery . (1)

This is for professional installers,you can hold default if you do not know. (2)

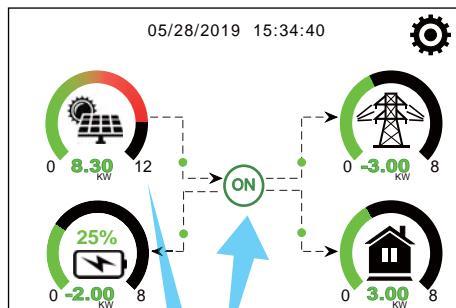
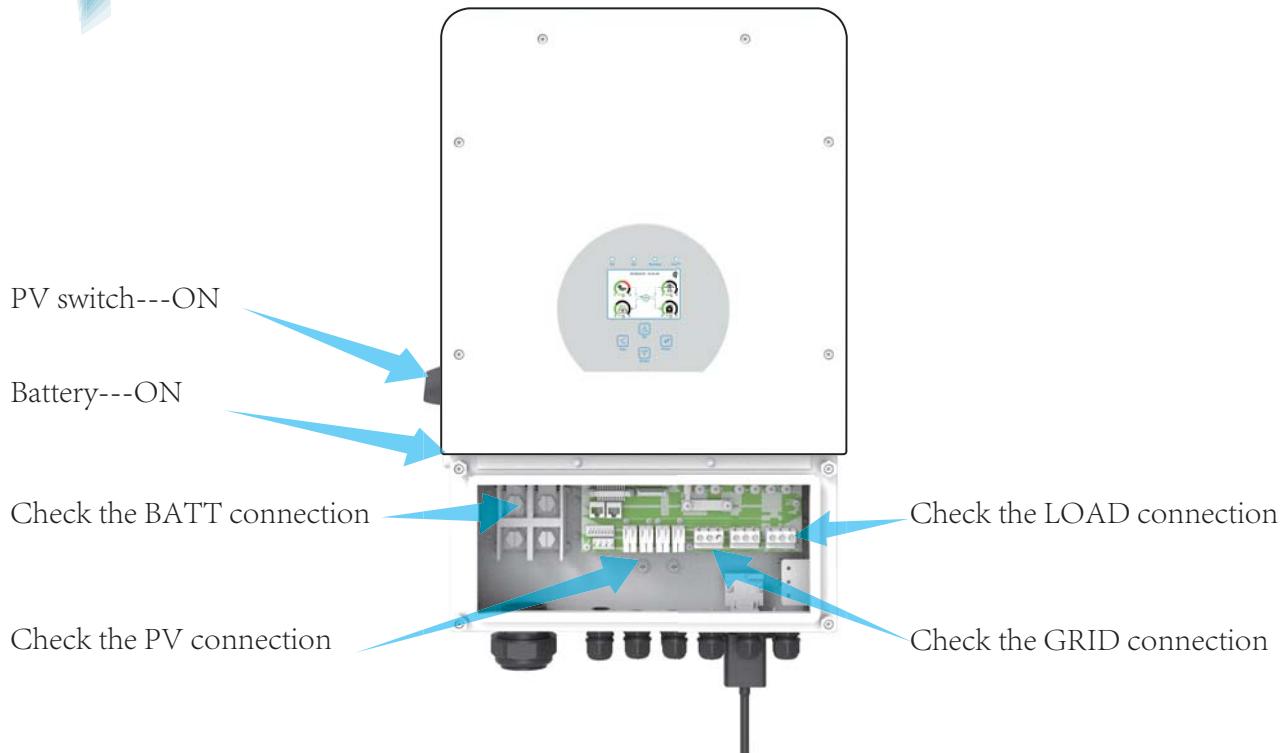
Shutdown 10%--the inverter will shutdown if the SOC below this value. (3)

Low Batt 20% --the inverter will alarm if the SOC below this value.

Restart 40% --Restart level when inverter shutdown.



Peak valley electricity

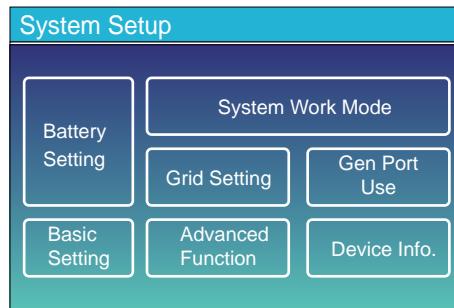


Inverter Running Status
ON: Inverter ON

OFF: Inverter OFF

Fxx: Alarm code Fxx

COMM.: Lost Communication with MCU



Battery Setting: Battery Mode, Charge&Discharge Current, Charge Voltage

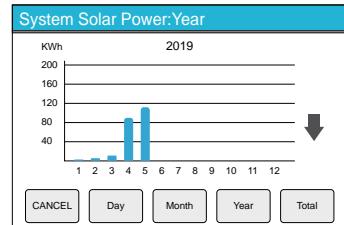
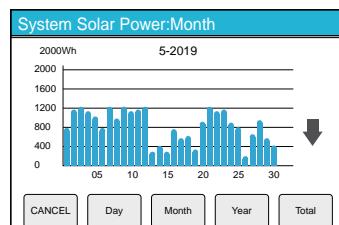
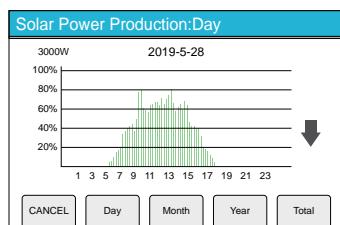
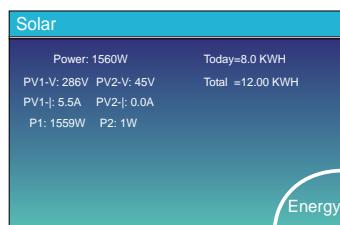
Basic Setting: Time, Beep, Factory Reset, Backlight, Lock out all changes

System Work Mode: Sell Grid, Zero-port to Load&Sell, Zero-port to CT&Sell,

Grid Setting: Grid mode, voltage type, frequency, PF

Gen Port Use: Generator input, Smart Load output, MI input.

Device Info: System version, ID, Alarm codes





Peak valley electricity

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System Work Mode

System Work Mode

Work Mode	<input checked="" type="radio"/> Selling First	①
Zero Export To Load	<input type="checkbox"/> Solar Sell	✓
Zero Export To CT	<input type="checkbox"/> Solar Sell	✓
Max Sell Power	4000	②
Energy pattern	<input checked="" type="checkbox"/> BattFirst	<input type="checkbox"/> LoadFirst

Selling First

①

Max. Sell Power---Modify by yourself

②

Energy pattern---no use

System Work Mode

Grid Charge	Gen	<input type="checkbox"/> Time Of Use	Time	Batt
01:00	~	5:00	80%	
05:00	~	9:00	80%	
09:00	~	13:00	80%	
13:00	~	17:00	80%	
17:00	~	21:00	80%	
21:00	~	01:00	80%	

Time of Use----Enable

At Valley electricity:Enable Grid Charge&set Batt 100%

At Peak electricity:Disable Grid Charge&set Batt 10%-20%

we have six time of use, Every time period must be from small to large.

Grid Charge---enable, When the actual SOC is smaller than the set value, the grid will charge the battery.

Grid Charge---Disable, The grid does not charge the battery.

Grid Charge---enable, When the actual SOC is smaller than the set value, the grid will charge the battery.

Grid Charge---Disable, The grid does not charge the battery.

Grid Setting

Grid Setting

Grid Mode	<input checked="" type="radio"/> General Standard	<input type="radio"/> UL1741 & IEEE1547	<input type="radio"/> CPUC RULE21	<input type="radio"/> SRD-UL-1741
Grid Type	<input checked="" type="radio"/> 220V Single Phase	<input type="radio"/> 120/240V Split Phase	<input type="radio"/> 120/208V 3 Phase	<input type="radio"/> 120V Single Phase

Please select the correct Grid Mode in your local area. If you are not sure, please choose General Standard.

Please select the correct Grid Type in your local area, otherwise the machine will not work or be damaged.

Grid Setting

Grid Frequency	<input checked="" type="radio"/> 50Hz	<input type="radio"/> 60Hz	①	
Reconnection Time	60S	PF	1.000	②
Grid HZ High	60.5Hz	Grid Vol High	265.0V	
Grid HZ Low	59.3Hz	Grid Vol Low	185.0V	

UL1741&IEEE1547, CPUC RULE21, SRD-UL-1741

No need to set the function of this interface.

General Standard

① Please select the correct Grid Frequency in your local area.

② You can keep this in default value.

Gen Port Use

Advanced Function

GEN PORT USE

Mode	<input checked="" type="radio"/> Generator Input	<input type="checkbox"/> Gen connect to Grid input
SmartLoad Output	<input type="checkbox"/> On Grid always on	
Power	1000W	Open Delay 60Min
Micro Inv Input	OFF 95%	ON 100%
MI export to Grid cutoff		

Advanced Function

- Solar Arc Fault ON
 - Clear Arc_Fault
- System selfcheck
- Gen peak-shaving
 - Power 7000W
- Grid peak-shaving
 - Power 4000W

Do not set this two pages