

Residential Energy Storage solutions





We can offer

- Hybird Inverter
- Solar panel
- Battery(AGM&Lithium)

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- Meter/Current Sensor
- Datalogger(WIFI&GPRS) and APP
- Solutions &Any customized requirements



GREEN INDUSTRY BETTER FUTURE

Bring The Sun Home

Wiring System for Inverter(Region:EU)



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Wiring System for Inverter(Region:US)



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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.





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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:Genrator input,Smart Load output,MI input.

Device Info:System version,ID,Alarm codes

Solar		Solar Power Production:Day
Power: 1560W PV1-V: 286V PV2-V: 45V PV1-I: 5.5A PV2-I: 0.0A P1: 1559W P2: 1W	Today=8.0 KWH Total =12.00 KWH	3000W 2019-5-28 100% 80% 40% 20% 1 3 5 7 9 11 13 15 17 19 21 23
	Energy	CANCEL Day Month Year To

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Battery Setting

Battery Setting	● Batt ModePlease select 1 2 3 batt mode
Batt Mode Lithium Batt Capacity 400Ah Use Batt V Max A Charge 40A Use Batt % Max A Discharge 40A No Batt ✓ Activate Battery	 1.LithiumLithium Battery with BMS 2.Use Batt VAGM Battery,System works according to voltage 3.Use Batt %AGM Battery,System works according to SOC 4.NO Battinverter can work without battery Batt CapacityPlease input the right Capacity of your battery Max. Charge&Discharge Current0-185A
	• Activate BatteryEnable

If you select Lithium

Battery Setting		
Start 30%	30%	
A 40A	40A	Batt Set2
Gen Charge	Grid Charge	
Gen Signal	Grid Signal	
Gen Max Run Time	0.0 hours	
Gen Down Time	0.5 hours	

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

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

You need set this part about Grid Charge.

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.

Battery Setting					
			\square		
Lithium Mod	00				
			Batt		
Shutdown	10%		Set3		
			$[\Box]$		
Low Batt	30%		\square		
					
Restart	80%				
			\equiv		

Gen SignalDisable	
Lithium Mode This is BMS protocol. Please reference the document (Approved	4
Battery-Deye)	
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

B	Battery	Setting				
	Start	49.0V		49.0V		
		40A		40A		Batt Set2
	Gen Charge			Grid Cha	irge	\Box
	Ger	n Signal		Grid Sigr	nal	F
	Gen Max Run Time		0.0) hours		
	Gen Dow	n Time	0.	5 hours		

This is Generator Charge, please ignore this part if you don't have Generator.	1
Start =49VIt indicates that the Generator will start when the Battery voltage is less	
than 49V in Off-grid mode.	
A = 40AIt indicates the Current that the Generator charges the Battery after starting.	
Gen ChargeThe Switch that the Generator charges the Battery.	
Gen SignalIt indicates whether the Generator's ATS signal is on or off.	

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Backup mode

LCD Setup-How to use

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 Start =49V No use, just for customization. A = 40AIt indicates the Current that the Grid charges the Battery. Gen ChargeIt indicates the Switch that the Grid charges the Battery. 	2
Gen SignalIt indicates whether the Generator's ATS signal is on or off.	
Gen Max RunTimeIt 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 DownTimeIt indicates the delay time of the Generator to shut down after it has reached the running time.	i

Battery Setting		
Float V 55.2V Absorption V 57.6V	Shutdown 41.0V Low Batt 45.0V	Batt Set3
Equalization V 58.8V	TEMPCO(mV/C/Cell)	
Equalization Days 90 days	Batt Resistance	

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There are 4 stages of charging the Battery .

This is for professional installers, you can keep it 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 %

E	Battery	Setting				
	Start 1 A	30% 40A		30% 40A		Batt Set2
	Ger	n Charge		Grid Cha	rge	
	Ger	n Signal		Grid Sigr	nal	
	Gen Max Run Time		0.0) hours		
	Gen Dow	n Time	0.5	5 hours		

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 ChargeIt indicates the Switch that the Generator charges the Battery.	
Gen SignalIt indicates whether the Generator's ATS signal is on or off.	(3)
Gen Max RunTimeIt 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.	U
Gen DownTimeIt 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

You need to set this part about Grid Charge.

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

Battery	Setting		
Start A	30% 40A	30% 40A	Batt Set2
Gei	n Charge	Grid Charge	•
Gei	n Signal	Grid Signal	
Gen Max	Run Time	0.0 hours	
Gen Dow	In Time	0.5 hours	

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 = 40AIt indicates the Current that the Generator charges the Battery after starting.				
Gen ChargeThe Switch that the Generator charges the Battery.				
Gen SignalIt indicates whether the Generator's ATS signal is on or off.				
Gen Max RunTimeIt 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.	U			
Gen DownTimeIt indicates the delay time of the Generator to shut down after it has reached the running time.				

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You need to set this part about Grid Charge.	
Start =30%no use, for customization.	
A = 40AIt indicates the Current that the Grid charges the Battery.	
Grid ChargeThe Switch that the Grid charges the Battery.	
Grid SignalDisable.	

Battery Setting					
Float V 🚺	55.2V	Shutdown 10%			
Absorption V	57.6V	Low Batt 30% Batt			
Equalization V	58.8V	TEMPCO(mV/C/Cell)			
Equalization Days	90 days	2 -5			
Equalization Hours	s 2.0 hours	Batt Resistance			

Backup mode

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. Low Batt 30%the inverter will alarm if the SOC below this value. Restart 80%Restart level when inverter shutdown.	3

System Work Mode

System Work Mode			
Work Mode			
Selling First	Work Mode1		
CZero Export To Load Solar Sell			
Zero Export To CT Solar Sell X			
Max Sell Power 4000 2			
Energy pattern 🔽 BattFirst 📃 LoadFirst			

1
2

System Work Mode						
Grid Charge	Gen		Tin Time	ne Of Us	e Batt	Work
		01:00	~	5:00	80%	Mode2
		05:00	~	9:00	80%	
		09:00	~	13:00	80%	
		13:00	~	17:00	80%	
		17:00	~	21:00	80%	K
		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			Diago select the correct Crid Mode in your local area. If you are not sure place choose			
Grid Mode	 General Standard UL1741& IEEE1547 CPUC RULE21 SRD-UL-1741 220V Single Phase 120/240V Split Phase 120/208V 3 Phase 120V Single Phase 120V Single Phase 	Grid Set1	General Standard. Please select the correct Grid Type in your local area,otherwise the machine will not work or be damaged.			

Backup mode

Grid Settir	ng				
Grid Frequency	/ 🔵 5 💽 6	0HZ 0HZ			Grid
Reconnection 7	lime ,	60S	PF	1.000	
Grid HZ High	60.5Hz	Grid	l Vol High	265.0V	
Grid HZ Low	59.3Hz	Grid	Vol Low	185.0V	

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Gen Port Use

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	No need to set the function of this interface
Mode Generator Input Gen connect to Grid input SmartLoad Output On Grid always on Power Open Delay 1000W GOMin OFF 95% Micro Inv Input ON 100%	No need to set the function of this interface.
MI export to Grid cutoff	

Advanced Function



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.







Inverter Running Status ON: Inverter ON OFF:Inverter OFF

Fxx:Alarm code Fxx

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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:Genrator input,Smart Load output,MI input.

Device Info:System version,ID,Alarm codes

Solar	Solar Power Production:Day
POTAT Today=8.0 KWH PV1-V: 286V PV2-V: 45V Total =12.00 KWH PV1-I: 5.5A PV2-I: 0.0A P1: 1559W P2: 1W	30000 2019-5-28 100% 40% 20% 40% 1 3 5 1 3 5 7 9 1 3 5 7 9 1 23
Energy	CANCEL Day Month Year Total







Zero-export

Battery Setting

Battery Setting Batt Mode---Please select 1 2 3 batt mode. Batt Mode 1.Lithium--Lithium Battery with BMS. Lithium 400Ah Batt Capacity Batt 2.Use Batt V--AGM Battery, System works according to voltage . O Use Batt V 40A Max A Charge 3.Use Batt %--AGM Battery, System works according to SOC. Use Batt % 40A Max A Discharge 4.NO Batt--System has no Battery, it becomes On-Grid inverter. No Batt 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 30%	30%	Batt		
A 40A Gen Charge	Grid Charge	Set2		
Gen Signal	Grid Signal			
Gen Max Run Time	0.0 hours			
Gen Down Time	wn Time 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.

(1

(2)

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- 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.

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

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

Lithium ModeThis 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	49.0V	49.0V			
	40A	40A	Batt Set2		
Gen Charge		Grid Charge			
Ge	n Signal	Grid Signal			
Gen Max Run Time		0.0 hours			
Gen Dow	In Time	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 notshut down all the time.
Gen DownTime ---It means the delay time of the generator to shut down after it has reached the run time.

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Zero-export

Start =49V no use, for customization.

A = 40A---It represents the current that the grid charges the battery. Grid Charge----It indicates the switch that the grid charges the battery. Grid Signal ---disable.

Battery Setting			
Float V	Shutdown 41.0V		
Absorption V 57.6V	Low Batt 45.0V Restart 52.0V		
Equalization V 58.8V	TEMPCO(mV/C/Cell)		
Equalization Days <mark>90 days</mark>	2 -5		
Equalization Hours 2.0 hours	25mOhms		

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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 41Vthe inverter will shutdown if the Voltage below this value. Low Batt 45Vthe inverter will Alarm if the Voltage below this value.	3

(2)

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(1)

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(3)

Restart 52V--Restart level when inverter shutdown.

If you select Use Batt %

E	Battery	Setting				
	Start	30%		30%	1	
		40A		40A		Batt Set2
	Gei	n Charge		Grid Cha	rge	
	Gei	n Signal		Grid Sigr	nal	
	Gen Max	Run Time	0.0) hours		
	Gen Dow	In Time	0.9	5 hours		

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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 turned 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.

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

Battery Setting	These are 4 stages of charging the Battery.
Float V 55.2V Shutdown 10% Absorption V 57.6V Restart 80%	This is for professional installers,you can keep default if you do not know.
Equalization V 58.8V Equalization Days 90 days Equalization Hours 2.0 hours	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.



System Work Mode



	Zero Export To Home+ Disable Solar Sell
	or Zero Export To Load + Disable Solar Sell
Γ	Max Sell PowerModfiv 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.

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System Work Mode					
Grid Charge ^{Gen}		Tin Time	ne Of Use	Batt	Work
	01:00	~	5:00	80%	Mode2
	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%	

Grid Setting

	ta a	
Grid Setti Grid Mode	General Standard UL1741& IEEE1547 CPUC RULE21 SRD-UL-1741	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 Type	 220V Single Phase 120/240V Split Phase 120/208V 3 Phase 120V Single Phase 	

Grid Setting		
Grid Frequency	50HZ 60HZ	Grid
Reconnection Time	60S PF	1.000
Grid HZ High 60.5H	Iz Grid Vol Hi	gh 265.0V
Grid HZ Low 59.3H	Z Grid Vol Lo	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.

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Zero-export

Gen Port Use



Adcanced 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.

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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.



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:Genrator input,Smart Load output,MI input.

Device Info:System version,ID,Alarm codes

Solar		Solar Power Production:Day	
Power: 1560W PV1-V: 286V PV2-V: 45V PV1-I: 5.5A PV2-I: 0.0A P1: 1559W P2: 1W	Today=8.0 KWH Total =12.00 KWH	3000W 2019-5-28	
	Energy	1 3 5 7 9 11 13 15 17 19 21 23 CANCEL Day Month Year 1 1 1 1 1 1 1 1 1 1 1 1 1 1 21 23	Tota

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Battery Setting

Batt Mode---Please select 1 2 3 batt mode **Battery Setting** Batt Mode 1.Lithium--Lithium Battery with BMS 1 O Lithium 400Ah Batt Capacity Batt Mode 2.Use Batt V--AGM Battery, System work according to voltage Use Batt V Max A Charge 40A 3.Use Batt %--AGM Battery,System work according to SOC Use Batt % Max A Discharge 40A 4.NO Batt--System has no Battery, it becomes On-Grid inverter No Batt Activate Battery • 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	 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 = 40AIt represents the current that the generator charges the battery after starting-up. Gen ChargeIt represents the switch that the generator charges the battery. Gen SignalIt indicates whether the generator's ATS signal is on or off. Gen Max RunTimeIt 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 DownTimeIt means the delay time after the generator reaches the running time.
Battery Setting Lithium Mode 00 Shutdown 10% Low Batt 30%	This is Grid Charge, you need select. 2 Start =30%no use, for customization. A A = 40AIt represents the current that the grid charges the battery. Gen ChargeIt represents the switch that the grid charges the battery. Gen SignalDisable. 4 Lithium ModeThis is BMS protocol, please reference the document (Approved Battery-Deye). 4
Restart 80%	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.

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If you select Use Batt V

Batter	y Setting		
Start	49.0V	49.0V	
	40A	40A	Batt Set2
	Gen Charge	Grid Charge	
6	en Signal	Grid Signal	
Gen M	ax Run Time	0.0 hours	
Gen De	own Time	0.5 hours	

This is Generator Charge, If you do not have a generator, please ignore this part .				
Start =49VIt means that when the battery voltage is less than 49V and the inverter is in the off-grid mode, the generator will start.				
A = 40AIt represents the current that the generator charges the battery after starting-up.				
Gen ChargeIt represents the switch that the generator charges the battery.				
Gen SignalIt indicates whether the generator's ATS signal is on or off.				
Gen Max RunTimeIt 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 DownTimeIt represents the delay time of the generator to shut down after it has reached the running time.				

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Solar Sell + Time of Use + Generator

Start =49V no use, for customization.	
A = 40AIt represents the current that the grid charges the battery.	
Grid ChargeIt represents the switch that the grid charges the battery.	
Grid SignalDisable.	

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Battery Setting				
Float V	55.2V	Shutdown	41.0V	
Absorption V	57.6V	Low Batt	45.0V 52.0V	Batt Set3
Equalization V	58.8V	TEMPCO(mV/C/Cell)		
Equalization Days	90 days	Batt Re	-5 sistance	×
Equalization Hour	S 2.0 hours	25m	Ohms	

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 41Vthe inverter will shutdown if the Voltage below this value.	3
Low Batt 45Vthe inverter will alarm if the Voltage below this value. Restart 52VRestart level when inverter shutdown.	

If you select Use Batt %

Battery	Setting		
Start	30%	30%	
	40A	40A	Batt Set2
Ge	n Charge	Grid Charge	
Ge	n Signal	Grid Signal	
Gen Max	Run Time	0.0 hours	
Gen Dow	n Time	0.5 hours	

This is Generator Charge, If you do not have a generator, please ignore this part .1Start = 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---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

Battery Setting				
Float V	55.2V	Shutdown	10%	
Absorption V	57.6V	Low Batt	30%	Batt
		Restart	80%	Set3
Equalization V	58.8V	TEMPCO(mV	/C/Cell)	
Equalization Days	90 days		-5	
Equalization Hour	s 2.0 hour	Batt R	esistance	
		25	5mOhms	

These are 4 stages of charging the Battery .	
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. Low Batt 30%the inverter will alarm if the SOC below this value. Restart 80%Restart level when inverter shutdown.	3



System Work Mode



System Work Mode					
Grid Charge ^{Gen}		Tir Time	ne Of Use	Batt	Work
	01:00	~	5:00	80%	Mode2
	05:00	~	9:00	80%	
	09:00	~	13:00	80%	\square
	13:00	~	17:00	80%	
	17:00	~	21:00	80%	K
	21:00	~	01:00	80%	

Time o	f Use	-Enable
1 1110 0	1 0 0 0	Diracio

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 HZ Low 59.3Hz Grid Vol Low

185.0V

Grid Sett Grid Mode Grid Type	ing General Standard UL1741 & IEEE1547 CPUC RULE21 SRD-UL-1741 220V Single Phase 120/240V Split Phase 120/208V 3 Phase 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 Setti	ng	
Grid Frequenc	у 🔵 50НZ	ULI/41&IEEEI547, CPUC RULE21, SRD-UL-1/41
	O 60HZ Grid	No need to set the function of this interface.
Reconnection 2	Time 60S PF 1.000	General Standard
Grid HZ High	60.5Hz Grid Vol High 265.0V	Delease select the correct Grid Frequency in your local area.

2 You can keep this in default value •

GEN PORT USE Mode O Generator Input Gen connect to Grid input O Generator Input On Grid always on Power Open Delay 1000W 60Min OFF 95% Micro Inv Input ON 100%

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Advanced Function







◆48V Battery DC/DC Isolated

◆230V Signle 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



Check the PV connection

Check the LOAD connection Check the GRID connection



Inverter Runnin<mark>g</mark> 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:Genrator input,Smart Load output,MI input.

Device Info:System version,ID,Alarm codes

Solar		Solar Pow	ver Production:Day
Power: 1560W	Today=8.0 KWH	3000W	2019-5-28
PV1-V. 200V PV2-V. 45V PV1-I: 5.5A PV2-I: 0.0A	10(a) = 12.00 KWH	80% 60%	
F1. 1339W F2. TW		40%	
	Energy		3 5 7 9 11 13 15 17 19 21 23 Day Month Year 1

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Total





Battery Setting

Battery Setti	ng			Batt ModePlease select 1 2 3 batt mode
Batt Mode		(1.LithiumLithium Battery with BMS
Lithium	Batt Capacity	400Ah	Batt Mode	2 Lise Batt V A CM Battery System work according to voltage
Use Batt %	Max A Charge	40A		2. Use Datt % - ACM Dattery, System work according to Voltage
No Batt			5.0se batt %AGM Battery, system work according to SOC	
Ŭ		/ /		4.NO BattSystem have no Battery, it is become On-Grid inverter
				 Batt CapacityPlease enter the right Capacity of your battery
		(Max. Charge&Discharge Current0-185A
				• Activate BatteryEnable

If you select Lithium

Battery Setting						
Start	30%	30%				
	40A	40A Batt Set2				
Gen Charge		Grid Charge				
Ger	n Signal	Grid Signal				
Gen Max Run Time		0.0 hours				
Gen Dow	n Time	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
in the off-grid mode, the generator will start.

(1) (3)

2

- 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 notshut down all the time.

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

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.

Lithium Mode	00	
Shutdown	10%	Bai Set
Low Batt	30%	Ľ
Restart	80%	

Gen SignalDisable
Lithium ModeThis 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	49.0V	49.0V	
	40A	40A	Batt Set2
Ge	en Charge	Grid Charge	
Ge	en Signal	Grid Signal	
Gen Ma:	x Run Time	0.0 hours	
Gen Dov	wn Time	0.5 hours	

This is Generator Charg	e,If you do not have a generator, please ignore this part .	1				
Start =49VIt means th off-grid, th	nat when the battery voltage is less than 49V and the inverter is ne generator will start.	3				
A = 40AIt represer	nts the current that the generator charges the battery after starting-u	ıp.				
Gen ChargeIt represe	Gen ChargeIt represents the switch that the generator charges the battery.					
Gen SignalIt indicate	s whether the generator's ATS signal is on or off.					
Gen Max RunTimeI u d	t means the longest time that generator can run in a day.When tim p, the generator will be switched off. 24H means that it does notsh own all the time.	e is .ut				
Gen DownTimeI	t represents the delay time of the generator to shut down after it ha eached the running time.	S				





Start =49V no use, for customization.	2
A = 40AIt represents the current that the grid charges the battery.	
Gen ChargeIt represents the switch that the grid charges the battery.	
Gen SignalIt indicates whether the grid's ATS signal is on or off.	

Battery Setting					
Float V	55.2V	Shutdown	41.0V		
Absorption V	57.6V	Low Batt	45.0V 52.0V	Batt Set3	
Equalization V	58.8V	TEMPCO(mV/0	C/Cell)		
Equalization Days	90 days	Batt Re	-5 sistance		
Equalization Hou	S 2.0 hours	25m	Ohms		

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 41Vthe inverter will shutdown if the Voltage below this value. Low Batt 45Vthe inverter will alarm if the Voltage below this value. Restart 52VRestart level when inverter shutdown.	3

If you select Use Batt %

Battery Setting						
Start	30%	30%				
	40A	40A	Batt Set2			
G	en Charge	Grid Charge				
G	en Signal	Grid Signal				
Gen Ma	x Run Time	0.0 hours				
Gen Do	wn Time	0.5 hours				

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	3
off-grid, the generator will start.	<u> </u>
A = 40AIt represents the current that the generator charges the battery after starting-up.	
Gen ChargeIt represents the switch that the generator charges the battery.	
Gen SignalIt 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 notshut 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.

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

Battery Setting					
Float V 1 Absorption V	55.2V 57.6V	Shutdown Low Batt	10% 30%	Batt Set3	
Equalization V	58.8V	TEMPCO(mV/0	80% C/Cell) -5		
Equalization Days	90 days	Batt Re	sistance mOhms		

These are 4 stages of charging the Battery.	
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. Low Batt 20%the inverter will alarm if the SOC below this value. Restart 40%Restart level when inverter shutdown.	3



System Work Mode



System Work Mode						
Grid Charge ^{Gen}	Time Of Use					
	01:00	~	5:00	80%	Mode2	
	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---Select General Standard Grid Mode O General Standard Grid Set1 Grid Type---Please select the correct Grid Type in your local area. O UL1741 & IEEE1547 CPUC RULE21 O SRD-UL-1741 O 220V Single Phase 0 120/240V Split Phase O 120/208V 3 Phase 0 120V Single Phase **Grid Setting** Grid Frequency 🔵 50HZ 1 Please select the correct Grid Frequency in your local area. ● 60HZ Grid Set2 (2) You can hole this in default value. Reconnection Time 60S 1.000 PF J 60.5Hz 265.0V × 59.3Hz Grid Vol Low 185.0V

Gen Port Use

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GEN PORT USE	Conceptor Jacob Englis
Mode Generator Input Gen connect to Grid input PORT Sat1	Generator inputEnable
SmartLoad Output On Grid always on Power Open Delay 1000W 60Min Concentration	
OFF 95% Micro Inv Input ON 100% Micro Inv Input ON 100% Micro Inv Cond Cutoff	



Advanced Function



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$\label{eq:microinverter} \mbox{AC couple} \ \ (\mbox{On-Grid/Off-Grid})$



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Inverter Running Status ON: Inverter ON OFF:Inverter OFF

Fxx:Alarm code Fxx

COMM.:Lost Communication with MCU

System Setup					
Battery	System Work Mode				
Setting	Grid Setting	Gen Port Use			
Basic Setting	Advanced Function	Device Info.			

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:Genrator input,Smart Load output,MI input.

Device Info:System version,ID,Alarm codes

Solar		Solar Power Production:Day
Power: 1560W	Today=8.0 KWH	3000W 2019-5-28
PV1- : 5.5A PV2- : 0.0A P1: 1559W P2: 1W		80% 60% 40% 20%
	Energy	1 3 5 7 9 11 13 15 17 19 21 23 CANCEL Day Month Year 1 1

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Total





Battery Setting

Battery Setting			Batt ModePlease select 1 2 3 batt mode		
Batt Mode			1.LithiumLithium Battery with BMS		
Use Batt V	Max A Charge	40A	Mode	2.Use Batt VAGM Battery,System works according to voltage	
Use Batt %	Max A Discharge	40A	\mathbf{V}	3.Use Batt %AGM Battery,System works according to SOC	
No Batt	Activate Battery		×	4.NO BattSystem have no Battery, it is becomes On-Grid inverter	
				 Batt CapacityPlease enter the right Capacity of your battery 	
● Max. Charge&Discharge Current0-185A					
● Activate BatteryEnable					

If you select Lithium

Battery Setting						
Start	30%	30%				
	40A	40A	Batt Set2			
	Gen Charge	Grid Charge				
	Gen Signal	Grid Signal				
Gen M	Max Run Time	0.0 hours				
Gen [Down Time	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.

(1) (3)

2

- 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 notshut down all the time.

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

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

Battery Setting					
Lithium Mode	00				
Shutdown	10%		Batt Set3		
Low Batt	30%				
Restart	80%				

Grid SignalDisable
Lithium ModeThis 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	49.0V	49.0V	
	40A	40A	Batt Set2
Gen Charge		Grid Charge	
Ge	n Signal	Grid Signal	
Gen Max	Run Time	0.0 hours	
Gen Dow	In Time	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 ChargeIt represents the switch that the generator charges the battery.					
Gen SignalIt indicates whether the generator's ATS signal is on or off.					
Gen Max Run'TimeIt 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 DownTimeIt represents the delay of the generator to shut down after it has reached the running time.					

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Start =49V no use, for customization.	2
A = 40AIt represents the current that the grid charges the battery.	
Gen ChargeIt represents the switch that the grid charges the battery.	
Gen SignalIt indicates whether the grid's ATS signal is on or off.	

Battery Setting					
Float V	55.2V	Shutdown	41.0V		
Absorption V	57.6V	Low Batt	45.0V 52.0V	Batt Set3	
Equalization V	58.8V	TEMPCO(mV/C/Cell)			
Equalization Days	90 days	Batt Re	-5 sistance Ohms		

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 41Vthe inverter will shutdown if the Voltage below this value. Low Batt 45Vthe inverter will shutdown if the Voltage below this value. Restart 52VRestart level when inverter shutdown	3

If you select Use Batt %

Battery	Setting				
Start	30%		30%		
A	40A		40A		Set2
Gen Charge			Grid Charge		
Gen Signal			Grid Sigr	nal	
Gen Max Run Time		0.0	0.0 hours		
Gen Do	wn Time	0.	5 hours		

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	3
off-grid, the generator will start.	Ŭ
A = 40AIt represents the current that the generator charges the battery after starting-up.	
Gen ChargeIt represents the switch that the generator charges the battery.	
Gen SignalIt 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 notshut 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.

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.

Battery Setting					
Float V	55.2V	Shutdown 10%			
Absorption V	57.6V	Restart 809	Batt Set3		
Equalization V	58.8V	TEMPCO(mV/C/Cel			
Equalization Days	90 days	Batt Resista	nce		
Equalization Hou	S 2.0 hours	25mOhn	ns		

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. Low Batt 20%the inverter will alarm if the SOC below this value. Restart 40%Restart level when inverter shutdown.	3

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System Work Mode



System Work Mode						
Grid Charge ^{Gen}		Tir Time	me Of Use	Batt	Work	
	01:00	~	5:00	80%	Mode2	
	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%		

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 Sett	ting General Standard UL1741& IEEE1547 CPUC RULE21 SRD-UL-1741 220V Single Phase 120/240V Split Phase 120/208V 3 Phase 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 Setti	ing	
Grid Frequenc	су 🔵 50НZ	OLI/41&IEEEI547, CPOC ROLE21, SRD-OL-1/41
	● 60HZ Grid Set2	No need to set the function of this interface.
Reconnection	Time 60S PF 1.000	General Standard
Grid HZ High	60.5Hz Grid Vol High 265.0V	Please select the correct Grid Frequency in your local area

(2) You can keep this in default value.

Gen Port Use

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59.3Hz Grid Vol Lov

185.0V

GEN PORT USE	
	Micro Inv InputEnable
Generator input Gen connect to Grid input	
SmartLoad Output On Grid always on	
Power Open Delay	
1000W 60Min OFF 95%	
Micro Inv Input ON 100%	
MI export to Grid cutoff	



Advanced Function



System selfcheckDisable. this is only for factory.
Gen Peak-shavingDisable
Grid Peak-shavingDisnable inverter will provide redundant parts to

visitable. Inverter will provide redundant parts to ensure avingthat the grid power does not exceed the set value in this interface.

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Battery Setting

Battery Setting				●Batt ModePlease select 1 2 3 batt mode
Batt Mode Lithium 	Batt Capacity	400Ah	Rott	1.LithiumLithium Battery with BMS.
Use Batt V	Max A Charge	40A	Mode	2.Use Batt VAGM Battery,System work according to voltage.
Use Batt %	Max A Discharge	40A		3.Use Batt %AGM Battery,System work according to SOC.
No Batt	Activate Batter		\mathbf{x}	4.NO BattSystem has no Battery, it becomes On-Grid inverter.
				 Batt CapacityPlease enter the right Capacity of your battery.
				● Max. Charge&Discharge Current0-185A.

• Activate Battery---Enable .

If you select Lithium

E	Battery	Setting		
	Start	30%	30%	
		40A	40A	Batt Set2
	Ger	n Charge	Grid Charge	
	Ger	n Signal	Grid Signal	
	Gen Max	Run Time	0.0 hours	
	Gen Dow	n Time	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.

(1 3

2

4

- = 40A---It represents the current that the generator charges the battery after starting-up. А
- 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 notshut down all the time.

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

This is Grid Charge, you need select

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

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

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

Battery Setti	ng	
		_
Lithium Mode	00	
Shutdown	10%	Batt Set3
Low Batt	30%	1
Restart	80%	

Gen SignalDisable.	
Lithium ModeThis 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

Ba	attery	Setting				
	Start	49.0V		49.0V		
	A	40A		40A		Batt Set2
	Ger	n Charge		Grid Cha	rge	
	Ger	n Signal		Grid Sig	nal	
Ī	Gen Max	Run Time	0.	0 hours		
L	Gen Dow	n Time	0.	5 hours		

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.
A $= 40A$ It represents the current that the generator charges the battery after starting-up.
Gen ChargeIt represents the switch that the generator charges the battery.
Gen SignalIt indicates whether the generator's ATS signal is on or off.
Gen Max RunTimeIt 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 notshut down all the time.
Gen DownTimeIt represents the delay of the generator to shut down after it has reached the running time

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Start =49V no use, for customization.	2
A = 40AIt represents the current that the grid charges the battery.	
Gen ChargeIt represents the switch that the grid charges the battery.	
Gen Signal It indicates whether the grid's ATS signal is on or off.	

41.0V
45.0V Batt
52.0V Set3
Ohms

1	This is Battery 4 tages charge voltage.	1
)	This is for professional installers, you can hold default if you do not know.	2
	Shutdown 41Vthe inverter will shutdown if the Voltage below this value. Low Batt 45Vthe inverter will shutdown if the Voltage below this value. Restart 52VRestart level when inverter shutdown.	3

If you select Use Batt %

Battery Setting					
Start	30%	2	30%		
A	40A		40A		Set2
Ge	en Charge		Grid Chai	rge	
Ge	en Signal		Grid Sign	al	
Gen Max Run Time		0.0	0.0 hours		H
Gen Do	wn Time	0.5	hours		

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 = 40AIt represents the current that the generator charges the battery after starting-up.	
Gen ChargeIt represents the switch that the generator charges the battery.	
Con Signal It indicates whether the generator's ATS signal is on or off	

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.

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.

Battery Setting				
Float V	55.2V	Shutdown	10%	
Absorption V	57.6V	Low Batt Restart	30% 80%	Batt Set3
Equalization V	58.8V	TEMPCO(mV/0	C/Cell)	
Equalization Days	90 days		-5	
Equalization Hou	rs 2.0 hours	Batt Re	sistance mOhms	

These are 4 stages of charging the Battery .	
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. Low Batt 20%the inverter will alarm if the SOC below this value. Restart 40%Restart level when inverter shutdown.	3





- 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:Genrator input,Smart Load output,MI input.

Device Info:System version,ID,Alarm codes

Solar			Solar Po	ower Production:Day
Power: 1560W PV1-V: 286V PV2-V: 45V PV1-J: 5.5A PV2-J: 0.0A P1: 1559W P2: 1W	Today=8.0 KWH Total =12.00 KWH		3000W 100% 80% 60% 20%	2019-5-28
	Energy		CANCEL	Day Maath Year

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System Work Mode

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

Grid Setting



(2) You can keep this in default value.

Gen Port Use Advanced Function

185.0V



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59.3Hz Grid Vol Low

	Advanced Function
	Solar Arc Fault ON
┦	Clear Arc_Fault
	System selfcheck
J	Gen peak-shaving
ก	Power 7000W
Į	Grid peak-shaving
	Power 4000W
-)	

Do not set this two pages