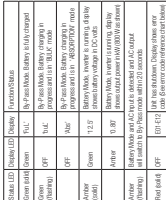


Auto Backup Mode (Factory default setting: "Off")
When the unit is fully automatic, When utility power is available, the unit will automatically switch to AC power. When the unit is running in AC bypass mode, AC output is supplied from the internal AC charger is ON and will automatically switch to battery back that is connected to the unit. When there is no utility or an AC source is not available, the unit will generate sine wave from the battery and the unit will generate sine wave continuously to maintain and operate the load continuously.

Same as Auto Backup Mode but when there is a power outage, the unit will shut down. If you have a generator or the utility or the AC input source is not available, the inverter will not turn ON automatically. You are required to manually start the generator or switch the AC input source.



Power' button is triggered.

- ### Understanding the Error Code

Code	Condition	Corrosion Action
------	-----------	------------------

[illegible]

Note: Specifications are subject to change without notices.

[illegible]

Transfer Time	< 30ms
Transfer Rate	16A
Transfer Relay Rating	8, 10, 16A
AC Input Source Setting	16A max
AC Output Port 1 (NC Solenoid) DIN-3	16A max
AC Output Port 2 (Hardwire Control)	16A max

Charging Voltage Range	13.5-14.4VDC
Full Voltage Range	13.4-13.8VDC
Charger Current (max)	550DC
Charger Current Setting	5, 10, 20, 40
Safety Type	Col. Flooded, AGM Flood
Charge Control	Bulk/Absorption/Floated
Efficiency	>80%

The charger current will be derated when the environment temperature reaches 60 °C (140 °F) or the internal temperature reaches the maximum value.

Enter Function Menu for unit settings:
To enter unit Function Menu, press and hold "Power" and "Select" buttons together for about 5 seconds until a beep is sounded.
When you are in Function Menu:
Press "Power" button for 1 second to toggle between different Functions Menu like "On", "Off", "Auto", "Q", and "Fid" etc.
Press "Select" button for 1 second to enter individual Function Set Menu and you can make change to the settings.
The unit will Exit the Main Menu automatically if "Power" and "Select" buttons is not trigger for more than 5 seconds.

- Press 'Select' button for 1 second to toggle between different setting values.
- Press 'Select' button for 5 seconds to set selected setting and exit to next Main Menu

122 The proposed condition

[illegible]

To troubleshoot the unit, please note the error code displayed on the main unit and review "Understanding the Error Codes" in section 4.

Problem	Symptom	Solution
No output voltage and Status LED is off	The unit will not respond to a valid IP address	Turn unit off by holding the reset button for 10 seconds until the unit automatically turns ON. Check IP and DNS. Disconnect switch if connected and check if a switch breaker is either blown or turned OFF.
No AC input. Status LED is Red	Overload tripped	Check load and reset the breaker.
No AC input. Status LED is Red	Overload tripped	Check load and reset the breaker.
No AC input. Status LED is Red	Overload tripped	Verify the current control and make connection.
No Output. Status LED is Red	Check AC Load	AC Load connected must be above the threshold of the AC Load sense setting.

Although the Power Inverter can provide high surge power up to two times the rated output power, some high surge loads like sump pumps, heavy duty motors etc. may still trigger the inverter protection system even though the load falls within the power rating of the inverter. A higher power Inverter-Charger is required for these appliances.

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To understand more about the unit features, read the following section and follow the instructions to make changes to the desired setting.

In downward: In1 - Inverter enabled in standby; mode with

Understanding the Unit Settings

(nr0)	inverter is disabled, unit will provide backup (inverter power is not available)
(nr1)	inverter is set to standby, mode with power save mode OFF, unit will provide back-up function when fully power is not available
(nr2)	inverter is set to standby, mode with power save mode ON, unit will provide back-up function only when fully power is not available AND the load connected to the inverter is > 10W and once it is OK, it will turn off when the output is < 3W. Unit will turn Off every 10 s to check on the power consumption

Battery Under Voltage Setting

Under voltage shutdown	11.8 Vdc
Under voltage recovery	12.6 Vdc
Alarm Setting	
A.L.O.	Fault and warning and the alarm is disabled. Display panel only shows error code and audible alarm is not sound.
A.L.1	And the alarm will sound when fault or warning occurs.
AC Input Branch Setting	
120.0V Unit	30.0V Unit

Case	≤ 3 A/D	4 A/D	≥ 8.75 A/D	9 A/D
C2	≤ 3 A/D	10 A/D	4.3 ± 0.3 A/D	15 A/D
	≤ 3 A/D	20 A/D	4.3 ± 0.3 A/D	35 A/D
	≤ 3 A/D	40 A/D	≤ 4.5 A/D	55 A/D

Setting for AC input breaker with 10 A rating. Maximum current drawn from AC input breaker = 10 A

Case	≤ 15 A/D	16 A/D	≥ 14.5 A/D	9 A/D
C3	14.5 A/D	10 A/D	12.5 ± 1.4 A/D	15 A/D
	12.5 A/D	20 A/D	10.5 ± 1.2 A/D	35 A/D
	≤ 12 A/D	40 A/D	≤ 10.1 A/D	55 A/D

Setting for AC input breaker with 10 A rating. Maximum current drawn from AC input breaker = 10 A

Fd	Reset all settings to manufacturing default settings (0.0A for 12.0W unit or 0.5A for 20.0W unit, Int., A.1, Sd., Rn, Cdc)
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Although the Power Inverter can provide high surge power up to two times the rated output power, some high surge loads like sump pumps, heavy duty motors etc. may still trigger the inverter protection system even though the load falls within the power rating of the inverter. A higher power Inverter-Charger is required for these appliances.

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Understanding the Unit Settings

(nr0)	inverter is disabled, unit will provide backup (inverter power is not available)
(nr1)	inverter is set to standby, mode with power save mode OFF, unit will provide back-up function when fully power is not available
(nr2)	inverter is set to standby, mode with power save mode ON, unit will provide back-up function only when fully power is not available AND the load connected to the inverter is > 10W and once it is OK, it will turn off when the output is < 3W. Unit will turn Off every 10 s to check on the power consumption

Battery Under Voltage Setting

Under voltage shutdown	11.8 Vdc
Under voltage recovery	12.6 Vdc
Alarm Setting	
ALD	Fault and warning and the alarm is disabled. Display panel only shows error code and audible alarm is not sound.
AL1	And the alarm will sound when fault or warning occurs.
AC Input Branch Setting	
120.0V Unit	30.0V Unit

Case	≤ 3 A/D	4 A/D	≥ 8.75 A/D	9 A/D
C2	≤ 3 A/D	10 A/D	4.3 ± 0.3 A/D	15 A/D
	≤ 3 A/D	20 A/D	4.3 ± 0.3 A/D	35 A/D
	≤ 3 A/D	40 A/D	≤ 4.5 A/D	55 A/D

Setting for AC input breaker with 10 A rating. Maximum current drawn from AC input breaker = 10 A

Case	≤ 15 A/D	16 A/D	≥ 14.5 A/D	9 A/D
C3	14.5 A/D	10 A/D	12.5 ± 1.4 A/D	15 A/D
	12.5 A/D	20 A/D	10.5 ± 1.2 A/D	35 A/D
	≤ 12 A/D	40 A/D	≤ 10.1 A/D	55 A/D

Setting for AC input breaker with 10 A rating. Maximum current drawn from AC input breaker = 10 A

Fd	Reset all settings to manufacturing default settings (0.0A for 12.0W unit or 0.5A for 20.0W unit, Int., A.1, Sd., Rn, Cdc)
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