

## Charger debug instruction

### Debug page

Parameter	Value	Unit	Options
Voltage Range	1000	V	
Current Range	1100	A	
PID Mode	4		1:Fast 2:Middle 3:Slowly 4:Customize
PID-P	20		
PID-I	20		
Soft start Time	0	S	
Soft stop Time	0	S	
Master slave shift	120		
Control Mode	0		0:Communication 1:Local
Start Method	0		0:JOG 1:Auto

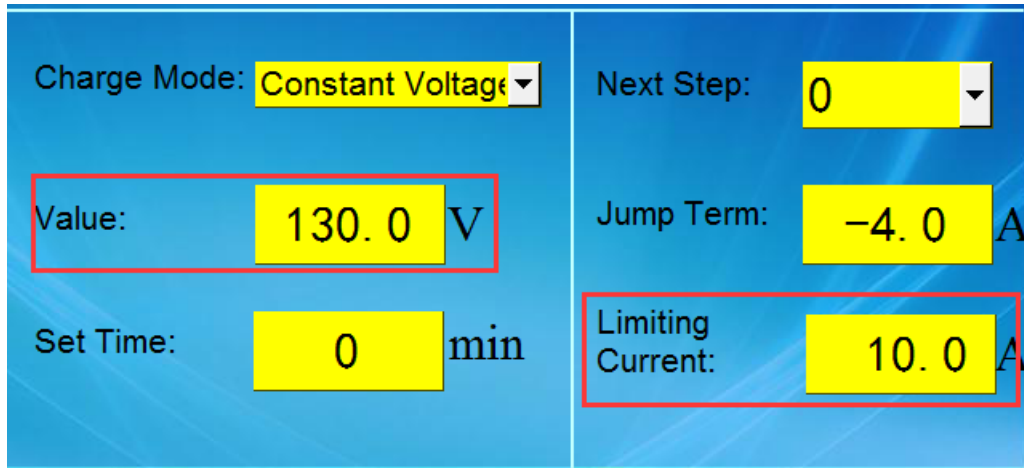
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**Debug1:** Charger debugging interface, these parameters have been set before leaving the factory, the customer does not modify

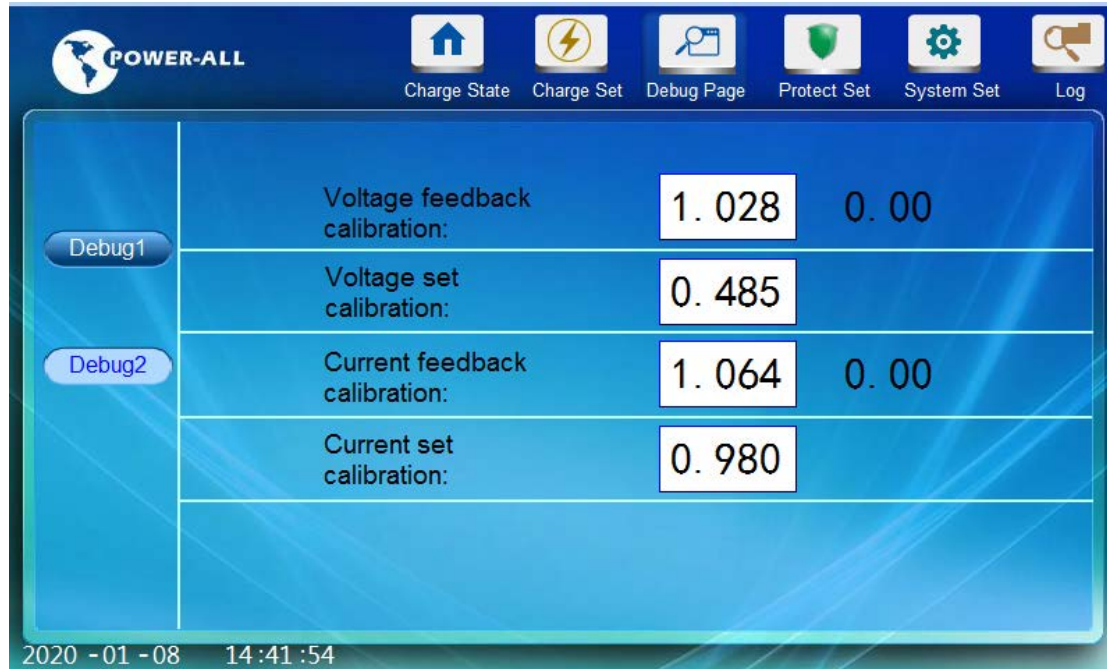
- 1) **Voltage Range:** This parameter is mainly used to calibrate the limiting voltage value during constant current charging. when the limiting voltage set 100V, but the real limiting voltage is not 100V, then you can change the "Voltage Range" to Adjust the actual value is equal to the set value.

Charge Mode:	Constant Current	Next Step:	0
Value:	40.0 A	Jump Term:	56.4 V
Set Time:	0 min	Limiting Voltage:	100.0 V

- 2) **Current Range:** This parameter is mainly used to calibrate the limiting current value during constant voltage charging. when the limiting current set 10A, but the real limiting current is not 10A, then you can change the "current Range" to Adjust the actual value is equal to the set value



- 3) **Soft start time:** soft start time of charger controller.
- 4) **Soft stop time:** soft stop time of charger controller.
- 5) **control mode:** For debugging, select the communication representative to control through the touch screen
- 6) **PID mode:** Proportional integral adjustment parameter, which can be adjusted to determine the voltage rise speed of charger
- 7) **Master salve shift:** Master-slave phase angle conversion, please do not modify the factory parameters
- 8) **Start Method:** Starting mode, select JOG mode in charger system, please do not modify the factory parameters



**Debug2 :** Calibrate the debugging interface for voltage and current . If recalibration is needed, please do not change too much, just a little. For example ,1.028 change to 1.030, not to 1.30.

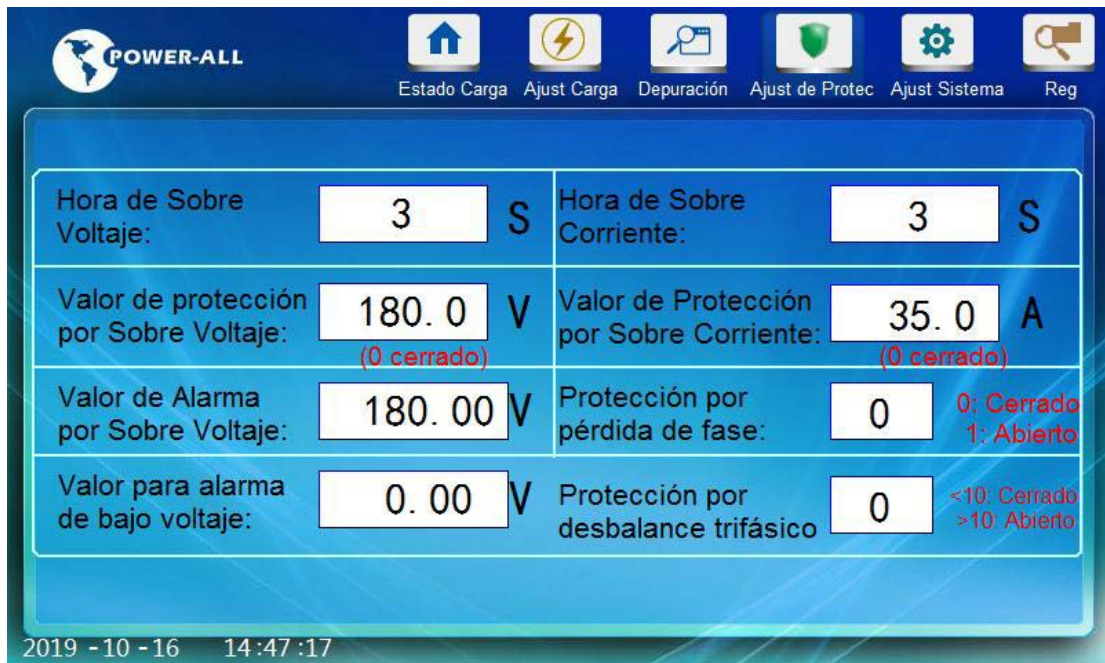
- 9) **Voltage feedback calibration:** Adjust this parameter when the display voltage is

inconsistent with the actual voltage.

- 10) **Voltage set calibration:** Adjust this parameter when the actual voltage value is not consistent with the setting value.
- 11) **Current feedback calibration:** Adjust this parameter when the display current is inconsistent with the actual current.
- 12) **Current set calibration:** Adjust this parameter when the actual current value is not consistent with the setting value.

## Protect Set

Protect Set page need a password to enter in (password:222) and the screen could set the parameters of over voltage protection, over & under voltage alarm, over current protection, lose phase protection and three-phase unbalance protection. as showed in the figure.



- 1) **Over voltage time:** This parameter is the overvoltage protection time of the charger, When the over-voltage time exceeds this setting value, the charger will disconnect the output. It should be used at the same time with the overvoltage protection voltage value.
- 2) **Over voltage protection value:** This parameter is the overvoltage protection of the charger, when set to 0, the protection is off, and when set to greater than 0, the protection will work.  
as illustrated by the example in the figure (when the output voltage of the charger reaches 180V, the delay is 3s to disconnect the output of the charger. Protection prevent damage to products and equipment due to excessive output voltage.)
- 3) **Over voltage alarm :** This parameter is the overvoltage alarm of the charger. When set to 0, the protection is off. When set to greater than 0, the protection is work. (Only alarm display, do not disconnect the charger output)

- 4) **Under voltage alarm:** This parameter is the under voltage alarm of the charger. When it is set to 0, the protection will be closed. When the setting is greater than 0, the protection will be effective. (Only alarm display, do not turn off the charger output)
- 5) **Over current time:** This parameter is the over current protection time of the charger, which should be used together with the over current protection value.
- 6) **Over current protection value:** This parameter is the over current protection of the charger, when set to 0, the protection is off, and when set to greater than 0, the protection is work.  
as illustrated by the example in the figure (when the output current of the charger reaches 35A, the delay of 3s turns off the output of the charger. Protection against damage to products and equipment due to excessive output current.)
- 7) **Lose phase protection:** This parameter is the lack of phase protection of the charger. When set to 0, the protection is closed; when set to 1, the protection is open. (When the protection is open, the output of the charger will be turned off if a fault occurs.)
- 8) **Three phase unbalance protection:** This parameter is the three-phase unbalanced protection of the charger. When the setting is less than 10, the protection is closed; when the setting is greater than 10, the protection is open. (When the protection is open, the output of the charger will be turned off if a fault occurs.)