200150

DROK Boost Converter

https://www.droking.com

Display Introduction

Digital Display Content	Description
0.00/000.0	Voltage value, 00.00~120.0V
P.000、P0.00、P00.0、P000.	Power value, unit W, the decimal point po-sitionwith the power of change and change position. For example: P.123 represents 0.123W, P1.23 represents 1.23W, P12.3represents 12.3W, P102 represents 102W
C.000、C0.00、C00.0、C000.	Capacity values, units AH, the decimal point is changed with the change of the capacity position. For example: C.123 represent 0.123AH, C1.23 represents 1.23AH, C12.3represents 12.3AH, C123 represents 123AH
--0-	Special features 0
--1-	Special function 1
--2-	Special function 2
--y-	Open Special Function
--n-	Close Special features
SA.-*(* represents 0~9)	Save parameters to the storage location of a storage location 0-9
Lo.-*(* represents 0~9)	Adjust the position of a given set of parameters stored in the 0 to 9
---	Save parameters
u00.0	Set the input voltage protection threshold

Simple mode

- Connect the input and output, to ensure that the range of input voltage requirements, the non-reverse. Input voltage must be higher than the minimuminput voltage

Input Voltage Range: 8V ~ 60V

Input Current Range: 0A ~ 15A

Output Voltage Range: 10V ~ 120V

Output Current Range: 0A ~ 15A

Actual output current is mainly decided by the load. The current regulation is to set a limit on output current. For example, if you set 3A output, it means load can't draw over 3A current.

When output is off, output voltage is not zero. It is equal to input voltage.

- Voltage format: 00.00/000.0 (no unit)

Current format: 0.00R/00.0R (unit: R)

Setting required voltage and current :

After powered on, default displays set voltage value. Press "SET" can switch to display current value. Press UP can increase value, press DOWN can decrease. The decimal point will move with the set value. Short press for precise setting, hold press for quick setting. After voltage/current is changed, press "SET", it will display "----", indicating currently set value is saved.

The default store bit is M0. If the voltage/current value is not changed, press "SET", it will switch to current or voltage value.

- After setting press the "OK" button you can export

- Under output state, when the voltage is displayed, press UP/DOWN button to increase or decrease the output voltage;

when the current is displayed, press UP/DOWN to increase or decrease the current value; short press can set accurately, and hold press can set quickly. Short press "OK" button can switch the voltage or current display; hold press for 3 seconds can automatically rotate voltage/ current display and hold press again can cancel automatically rotate voltage/ current display. (Press UP/DOWN button is invalid when voltage/ current display is automatically rotated)

- Under output state, press “SET” can stop output.

Fully functional mode

The module has three special functions, and all defaulted close.

Function Open/Close

Long press "OK" button, then power on the module, and the LED will loop between "--0-", "--1-", "--2-". Release "OK" button to open or close function 0 when displaying "--0-", and the same for function 1 and function 2. After releasing the "OK" button, the LED displays "--y-", means the current function has been turned on, and "--n-" means the current function has been turned off.

Function 0: automatically output after power on.

Function 1: set,save and call out parameters, display power and capacity.

In the state of no output, press the "SET" button to switch between "00.00"(Voltage) and "0.00R"(Current) , "Lo.-0" (Call-out Parameter), "SA.-0"(Save Parameter) and “00.0” (Default Value).

Setting Save and Call-out Parameter Function

For example, save “10V, 1.5A” in storage location1 and call it out:

Press the "SET" button to switch to the voltage value, set the voltage value to 10.00V, and press the "SET" button again to save the voltage value.

Press the "SET" button to switch to the current value, set the current value to 1.5A, and press the "SET" button again to save the current value.

Press the "SET" button to switch to "SA.-0", press the UP/DOWN button to select the storage location, which needs to be adjusted to "SA.-1", and press the "OK" button to save the set "10V, 1.5A" in storage location 1.

Press "SET" button to "Lo.-0", press UP/DOWN button to select the parameter of the storage location that needs to be called out, which needs to be adjusted to "Lo.-1", and press "OK" button to call out the parameter of storage location 1.

The module has a total of 10 groups of storage locations from 0 to 9. Each group of storage locations can set the voltage and current value arbitrarily and each storage location is independent from each other without affecting each other.

Setting Input Voltage Protection Function

The input voltage regulator protection function is mainly used in the solar panel as the power supply circuit, and its setting is as follows:

Start special function 1, press "SET" button to switch to U00.0, press UP/DOWN button to set the voltage value, and press "SET" button to save the set voltage value.

For example, your solar panels working voltage is 34 v 8 A (assuming this is the maximum output power point), and you want to set power supply up to 48 v, 4.5 A to recharge a battery. In an ideal situation, the must be able to meet the requirements of power supply. But when the sunlight becomes weak, the solar panel voltage drops. Assuming U00.0 at this time is set to 30V, when the input voltage drops to 30V, the power supply will automatically adjust the output voltage to ensure that will not be pulled down to 30V or less (ie, to obtain the maximum power).

Function 2:automatically switch parameter display under output state.

Restore factory settings: after power on, hold press the SET key, and then the power supply will automatically restore factory settings.

Notice

It can only boost voltage.

There should not be a great deal of difference between input and output voltage. Or power loss will increase and actual output may not be as expected.

Recommend product on Amazon:

DROK DC Buck Converter

Any question, pls feel free to contact us