

UDC-2812-8 10-30V/12V 8A DC-DC CONVERTER OPERATION MANUAL

1. FEATURES

- Design for marine equipment applications
- Switch-mode technology (100KHz)
- Isolated with input and output common ground
- Good load and line regulations
- Good load and line regulations
- Wide input voltage input range
- Fully electrical protected
- Anodized blue colour aluminium extrusion housing

2. SPECIFICATIONS

Parameter	Specification
Input Voltage	10- 30 DC
Standby Current	Less than 100mA
Output Voltage	12V DC \pm 0.2V
Output Current	8A Continuous
Load Regulation	3%
Line Regulation	1%
Ripple Noise	100mV (rms)
Efficiency	75 – 85%
Protections	(1) Input polarity protection. (2) Input low voltage drop out [power off resume] (3) Input high voltage protection [power off resume] (4) Output short circuit protection [auto resume] (5) Output current limit [auto resume] (6) Over temperature protection [power off resume] (7) Internal fuse
Indicators	Power LED (Red) & Output LED (Green)
Connections	Input & Output Binding Posts (Red: “+”; Black “-“)
Operating Temperature	5 – 55 °C
Dimensions	300mm x 88mm x 42mm (L x W x H)
Weight	1 Kg



3. OPERATION

- (1) Connect DC power to the input binding posts on the rear panel.
- (2) Connect the equipment to the output binding posts on the front panel.
(Beware of polarity!)
- (3) Turn on the power switch. Both power LED (red) and output LED (green) lit.

4. MAINTENANCE

This converter is maintenance free.

5. REMEDIES

Symptom	Recommended Action
Power LED does not lit	<ol style="list-style-type: none"> (1) Check DC input wiring. (2) Check power switch. (3) Check input polarity. (input polarity protected). (4) Check the input voltage range. (5) Check internal fuse
Output LED does not lit No output	<ol style="list-style-type: none"> (1) Check power switch. (2) Check output wiring. (3) Check for short circuit (short circuit protected). (4) Check for over-heating (over temperature protected).
Converter shuts down during running	<ol style="list-style-type: none"> (1) Check input voltage range. (2) Check for over-heating (over temperature protected).
Converter turns on and off periodically	<ol style="list-style-type: none"> (1) Check for short circuit (short circuit protected). (2) Check for overloading (current limited)