

48V→12V PROGRAMMABLE DC-DC CONVERTER

with battery charger function

SDC-5420

Description

Very few Step Down DC converter is built with programmable control and LED display which shows voltage, current, operation mode, and Error Code during protection.

A MCU control DC converter with 3 digit LED display, user defined output voltage from 12V to 15V in 0.2V step and the remote voltage sensing designed for voltage sensitive devices. It can be programmed into to a 2 stage battery charger. Its remote control terminal allows for auto or manual On Off operation.

It is bundled with remote alarm port for low input voltage (<42V), 7 fail-save protection all self recoverable.

Features

- Digitally adjustable 0.2V step of output voltage (12-15VDC) makes it ideal for voltage sensitive devices.
- stage Battery Charger mode with 14.3V Bulk and 13.6V Float charge.
- 3digit LED display for Voltage, Current, Operation Mode and Protection/ Fault Diagnosis.
- Remote Control Terminal for Manual or Automatic on/ off of output voltage.
- Remote Voltage Sensing for optimal and accurate powering of distant load or charging battery.
- Remote alarm terminal (12V, 0.25A) for powering external warning device when input is under 42V.
- A separate always-on auxiliary output (12V, 0.5A) to power critical electronic devices such as security device or remote ON/ OFF manual switch.
- Fail-save protection, with 7 self-recoverable and all with fault code on LED Display.
- Thermostatic control cooling fan.
- Optional accessory AVS-5025 vibration sensor to automatically control the On-Off charging operation without touching the car's electrical system at all. This is ideal for non-technical users.



Intended Applications

- Ideal for voltage sensitive loads, devices and equipment near or far from DC source.
- Remote Automatic or Manual On/ Off Control of output makes it ideal for various DC power and DC management applications.
- Suitable for on-board charging of stand alone 12V Battery Bank or Battery with load.

Specifications

Models	SDC-5420
Input Voltage Range	38-60DC
Adjustable Output Voltage Range	12-15VDC (0.2V increments)
Continuous Output Current	20A
No Load Current	<60mA
Efficiency	≥90%
Protections	Over Voltage, Overload, Input Reverse Polarity, Over Temperature, Output Reverse Polarity, Output Short Circuit, Input Under Voltage
Aux. Output (Always ON)	12VDC / 0.5A
Two Stages Battery Charger	Bulk Charge 14.3V Max. Constant Current 20A, Float Charge 13.6V
Remote Control of Output ON/OFF	Yes (Automatic or Manual Control)
Remote Voltage Sense	Yes
External Alarm Output 13.5V / 0.25A	To power warning device when input under voltage before shut down
Indicators	3digits LED display for V, A & Error code, Battery Charger Indicator
Cooling System	Thermostatic Control Fan
Operating Temperature	-10°C to +50°C
Accessories (Supplied)	4 Cable lug connectors, One 400V 3A diode
Accessories (Optional)	Vibration Sensor AVS-5025
Approvals	CE Compliance design
Dimensions (WxHxD)	130x55x190 mm 5.2x2.2x7.5 inch
Weight	1.4 kg 3.1 lbs
Recommended Battery Capacity Range	66-200AH

* All values are based on the Standard ambient Temperature 25°C and Pressure 0.1Mpa.

* SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE