

XL6009AUD DC-DC power supply adjustable, boost-buck module

The voltage is pulled down to below 7V or less when the car starts, and up to 15V or more at high engine speeds. It is difficult for the appliances working at 12V to work normally. This automatic voltage boost and drop module solves this problem. No matter the input voltage is 5V, 12V or 32V, the output can be stabilized at 12V.

- Ultra-wide input voltage 5V~32V;
- Ultra-wide output voltage 1.25V~35V (with automatic voltage rise and fall, within the working range, any voltage input can be regulated any voltage output);
- Built-in 4A high efficiency MOSFET switch, efficiency up to 94%; (LM2577 current only 3A)
- Ultra-high switching frequency 400KHz, smaller ripple, smaller size. (LM2577 frequency only 50KHz)

Application Areas:

Automobile voltage stabilizer, solar photovoltaic power generation, wind power generation and other unstable voltage applications.

Technical parameters:

Model	DSN6000AUD Automatic voltage up and down module
Module properties	Non-isolated boost (BOOST)
CDR	Asynchronous rectifier
Input Voltage	3.8V~32V
Output Voltage	1.25V~35V
Input current	3A (large), no-load 18mA (5V input, 8V output, no-load less than 18mA. The higher the voltage, the greater the no-load current)
Transfer efficiency	<94% (The higher the pressure difference, the lower the efficiency)
Switching frequency	400KHz
Output ripple	50Mv (The higher the voltage, the higher the current, the bigger the ripple)
Load regulation	±0.5%
Voltage regulation factor	±0.5%
Working temperature	-40°C ~ +85°C
OVERALL DIMENSIONS	48mm * 25mm * 14mm (length * width * height)