



LTC3780 DC 5V-32V to 1V-30V/10A /Automatic Step-Up-Down Regulator Charging Module

Input voltage: DC 5-32V;

Output voltage: DC 1V-30V continuously adjustable; the default 12V shipment

Output current: 10A (MAX) ,long term within 8A

Output power: 80W, peak 130W, more than 80W please strengthen heat dissipation

Output ripple: 50mV (12V turn to 12V, 5A measured)

Short circuit protection: YES

Input reverse connection protection: No

Output prevent reverse connection protection: No

Operating temperature range: -45 ~ +85 °

Size: 77.6*46.5*15mm (including the bottom surface of the radiating aluminum)

Package Size: 10cm x 10cm x 6cm (3.94in x 3.94in x 2.36in)

Advantages:

The input uses replaceable fuse to protect power supply and equipment;

The whole electrolysis use patch, low resistance, high frequency capacitor ,to make the ripple down to the freezing point;

Constant voltage, constant current, under voltage protection (MPPT is more suitable for solar charging)

The output has error indicating lamp,it will light when the output voltage drift too serious, short circuit and other fault;

Inductor use iron silicon aluminum, 0.8 double winding, generate less heat.