

GCP024 Module Specification

20190831-tzj

Product Introduction

GCP024 is an advanced smart charger with a wide voltage output range that can be charged with most electronic devices. GCP024 also supports many fast charging protocols, which are stable, fast, reliable and secure.

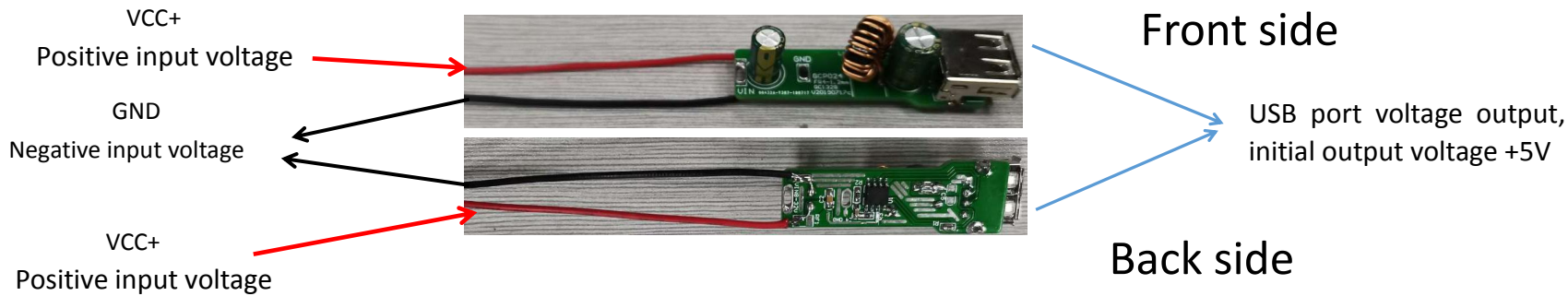
Features

- ★ Voltage input range: 8-32V
- ★ Voltage output range: 3-12V, can be adjusted automatically
- ★ Output power: The maximum power is 24W, and the output voltage has a line compensation function.
- ★ ESD 4KV, DC withstand voltage 33V
- ★ Conversion energy efficiency up to 95%
- ★ With output overcurrent, input overvoltage, input undervoltage, output circuit, machine over temperature protection
- ★ Support many fast charging protocols BC1.2, Samsung, Qualcomm QC2.0 and QC3.0, Samsung Fast Charge Protocol ACF

Application Field

- ★ Car charger
- ★ Fast charge adapter
- ★ Smart plug

Size and input and output ports



★ Size: 67mm*15mm*16.3mm

Pin	Name	Description
Red line	VCC+	Voltage positive input terminal VCC+
Black line	GND	Voltage input negative terminal GND
USB holder	Voltage OUT	USB port output voltage, normal no protocol communication initial state output +5V

Electrical characteristics

★Condition: $T_a=25^{\circ}\text{C}$, $V_{IN}=12\text{V}$, $V_{out}=5\text{V}$

Symbol	Parameter name	Minimum value	Typical value	Maximum value	Unit
VIN	Working voltage range	4	14	30	V
Iout	Working output current		3.4		A
VUVOL_H	Turn-on voltage		3.7		V
VUVOL_L	Shutdown voltage		3.1		V
TSD	Thermal shutdown temperature		150		$^{\circ}\text{C}$

Warning

- ★Can not be used in wet places
- ★Need to close in time after charging
- ★When it used for car charger, please use it after the car is started.