

# GCP027-AP6606AC Application Specification

20190905-HMJ

## Function Introduction

Support TYPE-C 与 USB port dual port output

Support QC3.0\QC2.0\AFC\FCP PD

Support PD fast charge mode 5V/4A、 9V/2.5A、 12V/2A、 15V/1.6A charging

Apply the car to charge the phone(phone support PD/QC3.0\QC2.0\AFC\FCP protocol)

Overcurrent protection, overheat protection, overvoltage protection, short circuit protection

## Product Parameter

Input voltage : 12-24V(DC)

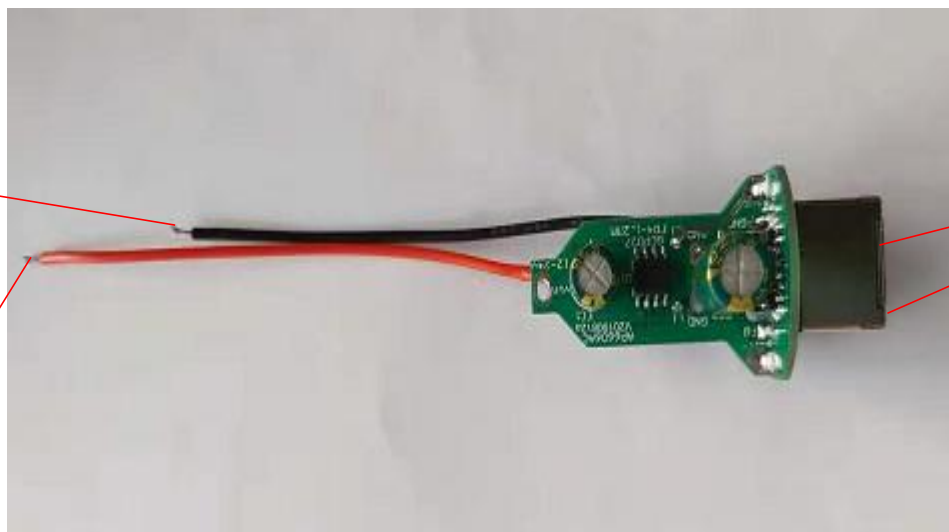
Output : DC5V/4A 9/2.5A 12V/2A 15V/1.6A

USB+TYPE-C output : 5V/4A

Output power : 20W

PCB size : 44.5MM(length)\*22MM ( width ) \*24.5MM(height)

## Product Display



Black line power  
input negative pole

Red line power input  
positive pole

TYPE-C port  
output  
USB-A port  
output

## Using instruction

- 1、 When using it, please insert the protocol devices which support

PD\QC3.0\QC2.0\FCP\AFC, the module will automatically recognize and output the suitable way for charging. (the output port has TYPE-C and USB port for alternative)

USB port	12-24V	QC/2.0/QC3.0	5V/4A	9V/2.5A	12V/2A
	12-24V	AFC	5V/4A	9V/2.5A	
	12-24V	FCP	5V/4A	9V/2.5A	
TYPE-C port	12-24V	QC/2.0/QC3.0	5V/4A	9V/2.5A	12V/2A
	12-24	PD	5V/4A	9V/2.5A	12V/2A
	24V	PD	15V1.6A		
	12-24V	AFC	5V/4A	9V/2.5A	
	12-24V	FCP	5V/4A	9V/2.5A	

2、 When using dual port output simultaneously, the voltage of two output port will be adjusted to 5V (total current is 4A)

### Attention

- 1、 The input voltage can't be higher than 30V, the wiring must be connected right (red to the positive pole, black to the negative pole)
- 2、 Since there is no outer covering, you can't touch the inductor and IC when it's charging in case it is hot.
- 3、 When it is charging, keep the module clean and the bottom pad is insulated to prevent short circuit.
- 4、 When the module is overcurrent protected, the module will restart continuously. Please disconnect the device and the module will return to normal. When the module is overheated, the module will stop working. When temperature drops by 30 degrees, the module will return to normal operation automatically.