20W USB C Charger



Features:

- Miniaturized Design: Small size and light weight
- \cdot No-load consumption<0.1W, Meet DOE VI
- Support protocols: PD, QC, FCP
- · Protections: Short circuit / Overload
- / Overvoltage / OverTemperature
- \cdot RoHS, Reach compliance

Application:

- \cdot Mobile Phone
- Tablet
- \cdot Digital Product (USB-C Charge)

Description:

The FC020X series model is a USB C charger with a plastic shell design, which can effectively prevent users from electrical hazards. Its efficiency meets the latest energy efficiency requirements. It can work safely and effectively at an ambient temperature of 0° C to 40° C. It has complete Protection function and compliance with electronic information & audio and video (IEC60950, IEC60065, IEC62368) related certifications, compatible with PD, QC, FCP and other protocols, enabling quick charging of mobile phones and tablet products.

FC020P01-090022C Model Voltage 5V3A/9V2A/12V1.5A PD3. 0/FCP/QC2. 0/QC3. 0 Protocol Output Ripple&Noise(pk-pk) 200mVp-p Remark2 90 ~ 264VAC Voltage range Input Frequency range 47 ~ 63Hz Efficiency(Typ.) 85% Safety standards IEC/EN60950, 60065, 62368 "●" Indicates that it is currently certified, "©" Indicates that the applicant Safety Type meet the certification requirement but not be certified CB \bigcirc CE+LVD 0 BIS \bigcirc UL/CUL 0 0 GS PSE \bigcirc PSB \bigcirc Safety CCC \bigcirc RCM \bigcirc BSM1 \bigcirc IRAM \bigcirc \bigcirc KC SABS \bigcirc SAS0 \bigcirc EAC \bigcirc B-MARK \bigcirc SII \bigcirc BR \bigcirc

Key Specification

20W USB C Charger

Electrical Specification

Model	-	FC020P01-090022		
Model	Voltage	5V3A/9V2. 22A/12		
Output	Protocol	PD3. 0/FCP/QC2. 0/QC3. 0		
	Ripple&Noise(pk-pk)	200mVp-p		
	Start and Rise time	3000ms, 80ms/230VAC		
	Voltage range	90 ~ 264VAC		
Input	Frequency range	47 ~ 63Hz		
	Standby Power			
	Consumption	100mW		
	Efficiency(Typ.)	85%		
	Input current(Typ.)	0.6A max @100~240Vac		
	Surge current(Typ.)	COLD START 60A/100Vac, 100A/240Vac		
Protect ion	OverLoad	140% max of rated output current		
		Recovers automatically after fault condition is removed		
	Overvoltage	11.5Vmax		
		Protection Type: Turn off the output, through the PWM control chip built-in VDD		
		voltage clamping		
Environ ment	Operating Temperature	0~ +40 °C		
	Operating Humidity	20 ~ 85% RH, non-condensing		
	Storage	-20 ~ +75°C, 5 ~ 95% RH, non-condensing		
	Temperature&Humidity			
	Temperature coefficiency	±0.03%/°C (0~40°C)		
	Vibration resistant	10 ~ 500Hz, 1G 10min/circle, X, Y, Z 30mins for each		
	Altitude	2000m		
	Withstande voltage Isulation resistant	I/P-O/P:3KVAC I/P-O/P:100M Ohms / 500VDC / 25°C/ 70% RH		
EMC		Parameter	Standard	Test Level / Note
	ЕМІ	Conducted	EN55032 (CISPR32), FCC Part 15B	Class B
		Radiated	EN55032(CISPR32), FCC Part 15B	Class B
		Harmonic	EN61000-3-2	Class A
		Voltage	EN61000-3-3	
	EMS	EN55035, EN61	000-6-2, EN61204-3	
		Parameter	Standard	Test Level /Note
		ESD	EN61000-4-2	Level 3, 15KV air; Level 2,
				8KV contact, criteria A
		Radiated	EN61000-4-3	Level 3, criteria A
		Susceptibility EFT/Burest	EN61000-4-4	Level 3, criteria A
		Surge	EN61000-4-5	Level 4, 4KV/L-N, criteria A
		Conducted	EN61000-4-6	Level 3, criteria A
		Magnetic Field	EN61000-4-8	Level 4, criteria A
		Voltage Dips	EN61000-4-11	>95% dip 0.5 periods, 30%
		and		dip 25 periods,
		interruptions		>95% interruptions 250
Others	MTBF	≥100K hrs. MIL-HDBK-217F (25℃)		
	Size(W*H*D) 43*41*29mm			
	1. All specifications and parameters shall be measured at the input of 230VAC, rated load and ambient temperature of 25°C unless			
Remark	otherwise specified. 2. Ripple and noise measurement method: capacitance of 0.1uF and 47uF in parallel at the terminal and the measurement is performed under			
	the 20MHZ bandwidth.			
	 Accuracy: includes setting error, linear adjustment rate and load adjustment rate. The nower supply adapter is an independent component, but the final adapter still needs to be confirmed in connection with the 			
	4. The power supply adapter is an independent component, but the final adapter still needs to be confirmed in connection with the electromagnetic compatibility of the terminal equipment.			