FSP240D-XXSA1CP

FEATURES

- Bidirectional power supply with battery charger function
- USB PD3.1 @type C, input max. 200W for battery charging
- USB PD3.0 @type C, output max. 100W for USB C device
- Programmable DC, output 15V to 58.8V
- Programmable charging curve
- Compact size 80x30x36mm
- Mini DIN 4pin or cable version
- CAN, UART support
- Weight 85g
- IEC62368 compliant

SAFETY STANDARD APPROVAL

CE

FC Tested to Comply With FCC Standards
FOR HOME OR OFFICE USE

DESCRIPTION

This product is a bidirectional DC to DC converter for battery application intended for Integration Type-C and Battery-Pack. The USB PD interface supports Dual Roles of Power (DRP) provides the possibility to charge the battery and use battery as powerbank.

USB INTERFACE SPECIFICATIONS

Input voltage @ power sink mode:	20V, 28V, 36V, 48V
Power requirement as sink mode:	65W-240W
Output voltage @ power source mode:	5V, 9V, 12V, 15V, 20V
Max output power	SPR Mode as default EPR Mode as optional
Cable requirement for >3A:	With E-Mark chip

BATTERY INTERFACE SPECIFICATIONS

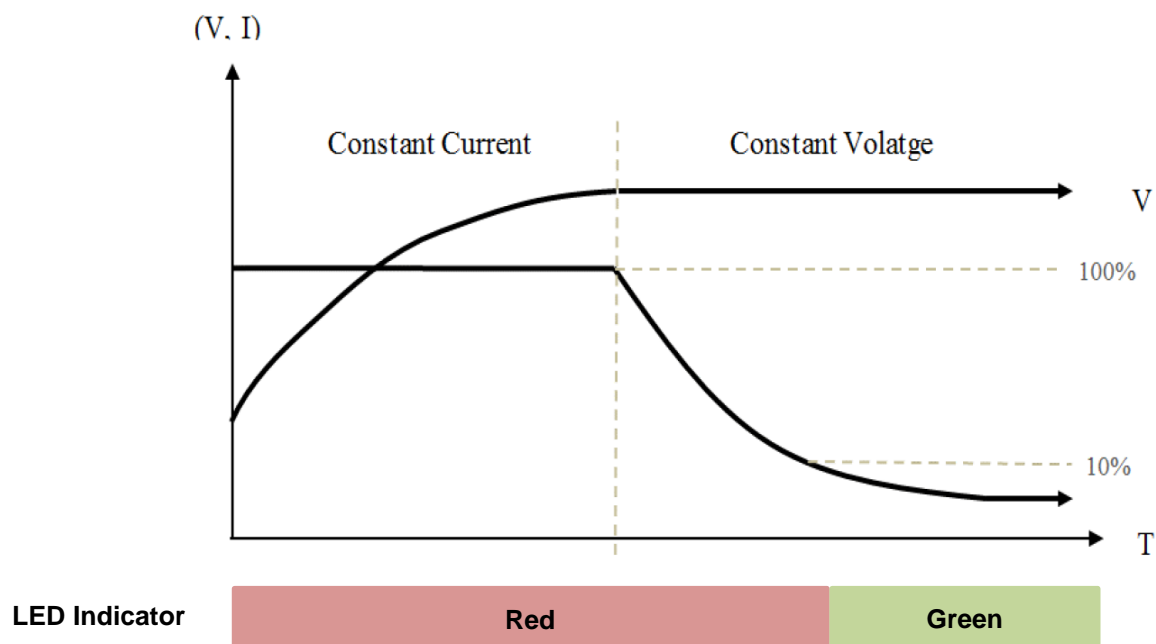|	
Output voltage:	15V-58.8V
Output current:	Max 5.25A
Max. output power:	200W
Protection:	OVP, OCP, UVP, SCP, OTP, Timing protection

ENVIRONMENTAL SPECITICATIONS

Operating temperature:	0~40°C
Storage temperature:	-20~+80°C
Operating humidity:	10~90% RH non-condensing
Storage humidity:	10~90% RH non-condensing

GENERAL SPECIFICATIONS

Efficiency @ CC Mode:	Min. 93% @ 48V/5A PD profile	
LED Indicator:	Green on	No battery / Fully charged
	Red on	Charging
	Red flash	Error
	Green flash	Discharge battery
Battery Output Option:	Cable / Socket	
Battery Output Function:	Battery+, Battery-, BMS_wakeup	
CAN Communication:	Optional	
Battery Output Socket:	Power Din 4pin	
Mating Plug:	Singatron 3MP-3432-002A Singatron 4MP3432000004 FOENCOM FP4J2S Or Equivalent	
Size:	80 x 30.5 x 36.4mm	
Weight:	100g	
MTBF:	≥ 100,000Hrs Max. load @ 40°	

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BATTERY CHARGING CURVE

| LED Indicator | Red | Green |

MECHANICAL & AC CONNECTOR SPECIFICTIONS

ITEM	PART NAME	COLOR
1	TOP CASE	Patone2377C
2	BOTTOM CASE	Patone2377C
3	TYPE-C	
4	POWER DIN 4PIN	

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