

CRPS Module



Features

- Wide Input Range: 100–240VAC / 180–320VDC
- Protections:
 - Short circuit / Over voltage / Under voltage
 - Over current / Over temperature
- 80 PLUS® Titanium
- Built-in I²C Communication with PMBus Protocol
- Built-in 256-Byte EEPROM
- Parallel Operation with Active Current Sharing
- N+M Smart Redundancy (N+M ≤ 4)
- Variable-speed Fan Cooling
- Operating Altitude up to 5,000 Meters
- Dual LED Status Indicators with Fault Indication

ES23200 U XX YY

U: Output range
XX: Specified output voltage, i.e. 12 is 12VDC
YY: Differential segmentation

General Specification

OUTPUT

MODEL No.	OUTPUT POWER (W)	INPUT VOLTAGE (VAC / VDC)	OUTPUT VOLTAGE (Vo)	MIN. LOAD(lo)	MAX. LOAD(lo)	LOAD REGULATION	LINE REGULATION	RIPPLE & NOISE
ES23200U12YY	1200W	100–127Vac	V1 : 12.2V	1A	98.4A	± 5%	± 5%	120mV
	2800W	180–210Vac	V1 : 12.2V	1A	229.5A	± 5%	± 5%	120mV
		180–210Vdc						
	3000W	210–220Vac	V1 : 12.2V	1A	245.9A	± 5%	± 5%	120mV
		210–220Vdc						
	3200W	220–240Vac	V1 : 12.2V	1A	262.3A	± 5%	± 5%	120mV
		220–320Vdc						
	36W	90–264Vac	Vsb : 12V	0.1A	3A	± 5%	± 5%	120mV
		180–320Vdc						

NOTE:

1 : Ripple & Noise is measured by using 20MHz bandwidth limited oscilloscope and terminated each output with a 0.1uF ceramic capacitor & parallel with 47uF aluminum capacitor at full load and nominal line.

2 : Line regulation is defined by changing ±10% of input voltage from nominal line at rated load.

3 : Max. Power (W) ≥ Vo x lo

INPUT

- Input Range 100 to 240 VAC / 180 to 320VDC
- Frequency 50 to 60Hz
- Input Current ≤ 16A
- Inrush Current ≤ 35A@230VAC, Cold start
- Hold UP Time ≥ 11ms @70% load
- Turn On Time ≤ 3s

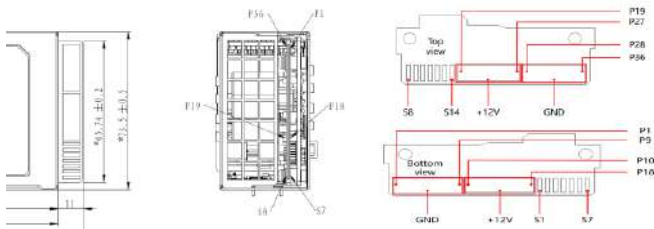
PROTECTION

- Short Circuit Protection V1 Latch ; Vsb : Auto Recovery
- Over Voltage Protection V1 Latch ; Vsb : Auto Recovery
- Over Current Protection V1 Latch ; Vsb : Auto Recovery
- Over Temperature Protection Auto Recovery

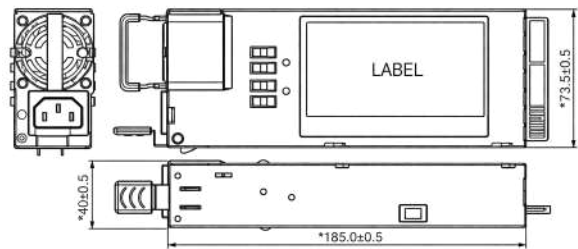
ENVIRONMENT

- Operating Temperature 0°C to 55°C
 - Storage Temperature -40 to 85°C
 - Operating Humidity 5% to 90 %
 - Storage Humidity 5% to 95 %
 - Operating altitude:dity 5,000 meters
- RH non-condensing

DC Output Connector



MECHANICAL



- Mechanical Size: 185L x 73.5W x 40H (mm)
- AC Input Connector : IEC 60320 C20 appliance inlet
- Weight: 920g

SAFETY

- Complied with UL 62368-1, CAN/CSA C22.2 No. 62368-1, TUV EN 62368-1, CB IEC 62368-1

Pin	Name	Pin	Name
P1-P9	GND	P28-P36	GND
P10-P18	+12V	P19-P27	+12V
S1	I ² C_A0	S14	I ² C_SDA
S2	I ² C_A1	S13	I ² C_SCL
S3	12VSB	S12	PSON_L
S4	SMART_ON	S11	SMB_ALERT_L
S5	ISHARE_SYS (12LS)	S10	12V_SENSE_N
S6	PSU_PRESENT_L	S9	12V_SENSE_P
S7	VIN_GOOD	S8	PWOK