

CRPS Module



Features

- Wide Input Range: 90–264VAC / 180–400VDC
- 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

ES22000 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(Io)	MAX. LOAD(Io)	LOAD REGULATION	LINE REGULATION	RIPPLE & NOISE
ES22000U12YY	1000W	90~175Vac	V1 : 12.2V	1A	82A	± 5%	± 5%	120mV
	1600W	180~200Vac	V1 : 12.2V	1A	128.7A	± 5%	± 5%	120mV
		180~200Vdc						
	1800W	200~220Vac	V1 : 12.2V	1A	145.1A	± 5%	± 5%	120mV
		200~220Vdc						
	2000W	220~264Vac	V1 : 12.2V	1A	161.5A	± 5%	± 5%	120mV
		220~400Vdc						
	36W	90~264Vac	Vsb : 12V	0.1A	3A	± 5%	± 5%	120mV
		180~400Vdc						

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 Io

- INPUT
- Input Range
 - Frequency
 - Input Current
 - Inrush Current
 - Hold UP Time
 - Turn On Time

100 to 240 VAC / 180 to 400VDC
50 to 60Hz
≤ 12A
≤ 50A@230VAC, Cold start
≥ 10ms @100% load
≤ 3s

- PROTECTION
- Short Circuit Protection
 - Over Voltage Protection
 - Over Current Protection
 - Over Temperature Protection

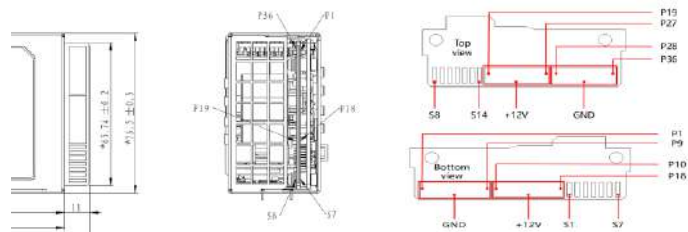
V1 Latch ; Vsb : Auto Recovery
V1 Latch ; Vsb :Auto Recovery
V1 Latch ; Vsb : Auto Recovery
Auto Recovery

- ENVIRONMENT
- Operating Temperature
 - Storage Temperature
 - Operating Humidity
 - Storage Humidity
 - Operating altitude:dity

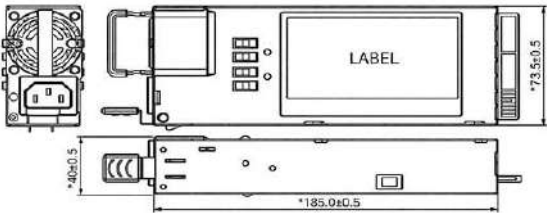
-5°C to 55°C
-40 to 85°C
5% to 90 %
5% to 95 %
5,000 meters

RH non-condensing

DC Output Connector



MECHANICAL



- Mechanical Size: 185L x 73.5W x 40H (mm)
- AC Input Connector : IEC 60320 C14 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	I²C_A0	S14	I²C_SDA
S2	I²C_A1	S13	I²C_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