

# SSU120 series

120W Waterproof Power Supply

## Features:

- Wide Operating Voltage 90 to 305 VAC, 47 to 63 Hz
- Internal EMI filter
- Active Power Factor Correction
- Over Voltage, Over Current, Over Temp (optional)
- Class I
- 3 year warranty



## Electrical Characteristics:

Vin	Safety Approvals Input Voltage Range	100~277VAC
	Operate Voltage Range	90~305VAC
fin	Input Frequency	47~63Hz
PF	Power Factor Correction	Io=Full load, Vin=90~280VAC
Po	Output Power Range	See rating chart
Vo	Output Voltage Range	See rating chart
Io	Output Current Range	See rating chart
Iil	Input Current (Low Line)	Io=Full load, Vin=115VAC
Iih	Input Current (High Line)	Io=Full load, Vin=230VAC
Ir	Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC
	High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC
Eff	Efficiency	Io=Full Load, Vin=230VAC
REG-i	Line Regulation	Io=Full Load
REG-o	Load Regulation	Vin=230VAC
OVP	Over Voltage Protection	103~105%
OCP	Over Current Protection	140~180%
Ttr	Time of Transient Response	Io=Full Load to Half Load, Vin=100VAC
Th	Hold-Up Time	Io=Full Load, Vin=110VAC
Ts	Start Up Time	Io=Full Load, Vin=100VAC
Vp-p	Ripple & Noise(Peak to Peak)	Full Load, Vin=90VAC
Ilk	Safety Ground Leakage Current	Vin=240VAC/60Hz
TC	Temperature Coefficient	All output
Pno	No-Load Power Consumption	No load, Vin=230VAC
Vps	Dielectric Withstanding Voltage	Primary to secondary
Vpg	Dielectric Withstanding Voltage for Primary to PE	Primary to PE
Ris	Isolation Resistance	Test Voltage=500VDC

## Environmental

To	Operating Temperature	See derating curve
Ts	Storage Temperature	-40~85°C
Ho	Operating Humidity	0~95%
Hr	Storage Humidity	0~95%
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F	0.1M Hrs (min.)
Pd	Derate linearly from 100% load at 60°C to 50% load at 70°C	

## Application:

- Outdoor installations

## Safety Approvals:

cULus CE CB

IP67 RoHS COMPLIANT

UL/c-UL(UL 60950-1:2nd Edition)  
TUV/GS(EN 60950-1:2nd Edition)



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## Output Voltage And Current Rating Chart ( Single Output ) :

Model Number	Output Voltage	Output Current	Total Regulation	Max. Output Power	Pno (max.)
SSU120-108	21 ~ 27 VDC	5.71 ~ 3.70 A	3%	120W	1W
SSU120-109	27 ~ 33 VDC	4.44 ~ 3.03 A	3%	120W	1W
SSU120-110	33 ~ 40 VDC	3.63 ~ 2.50 A	3%	120W	1W
SSU120-111	40 ~ 50 VDC	3.00 ~ 2.00 A	3%	120W	1W

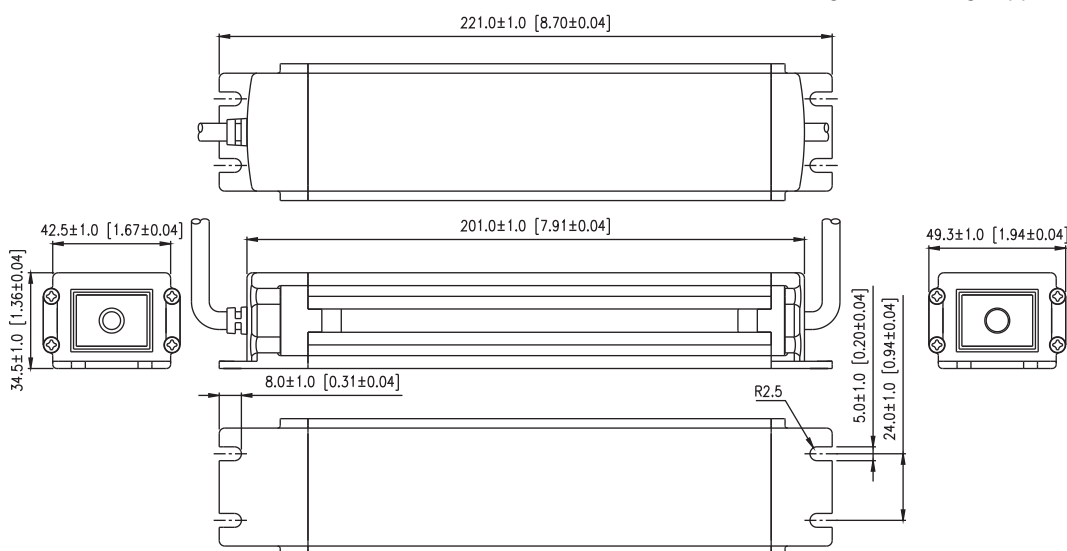
Input Connector : SJTW, 18AWGx3C (1Ft)

Output Connector : SJTW, 18AWGx2C (1Ft)

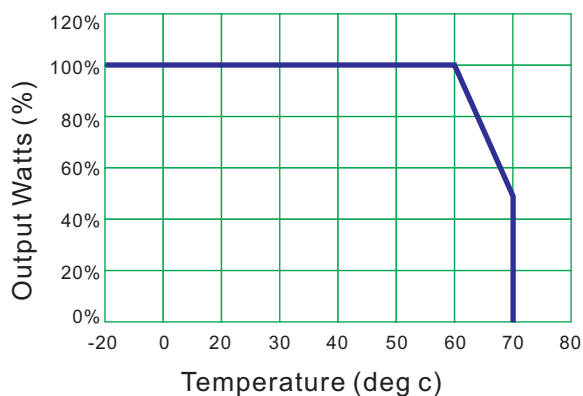
## Mechanical Specifications:

Note:

1. Dimensions are shown in inches or mm .
2. Weight: 680~750gs approx.



## Derating Curve :



1. Operating Temperature: -20 to 70°C
2. Derate linearly from 100% load at 60°C to 50% load at 70°C