Genera

SINPRO

SUU150 series

The SUU150 series of AC/DC switching mode power supplies provide 150 Watts of continuous output power . All supplies are UL94V-1 min compliant. All models meet FCC Part-15 class B and CISPR-22 class B emission Limits and are designed to comply with UL/c-UL, TUV/Bauart and CE marking conformity assessment. All units are 100% burned in and tested.



RoHS₂ 2011/65/EU

* Class I system * 3 year warranty

APPLICATIONS:

* Industrial PC

* Single Output

FEATURES:

* Internal EMI filter

* Active Power Factor Correction

* Synchronous Rectification

* Crowbar Mode Over Voltage Protection

* Electrical Test & Measurement Instruments

* Wide Operating Voltage, 90 to 260 VAC, 47 to 63 Hz

- * Communication equipment
- * AV equipment

GENERAL SPECIFICATION:

- * Short Circuit Protection: Auto Recovery
- * Cooling: Free Air Convection
- * Flammability Rating: UL94V-1
- * Protection Classes: Class I
- * Safety: UL 60950-1:2nd Edition, CSA C22.2 No.60950-1-07
 - IEC 60950-1:2005/A2:2013, EN 60950-1:2006/A2:2013

150W U Bracket Power Supply for General Purpose

Electrical Characteristics:

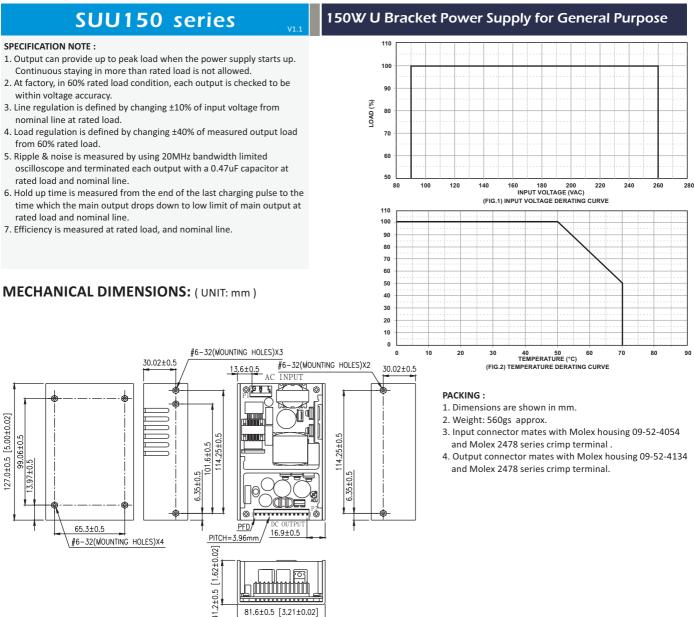
LIEUU	ical characteristics.									
Symbol	Characteristic	Condition	Min.	Тур.	Max.	Unit				
Vins	Safety Approval Input Voltage Range	Safety Approval & Specification in Label	100		240	VAC				
Vin	Input Operate Voltage Range	Detail to see Fig.1	90		260	VAC				
Fi	Input Frequency	Sine wave	47		63	Hz				
PF	Power Factor Correction	Io=Full load, Vin=240VAC	0.95		1					
Ро	Output Power Range	See Rating Chart			150	W				
Iil	Low Line Input Current	Full Load, Vin=100VAC		2.0		Α				
Iih	High Line Input Current	Full Load, Vin=240VAC		0.8		Α				
Irl	Low Line Input Inrush Current	Full Load, 25°C, Cool start, Vin=100VAC			40	Α				
Irh	High Line Input Inrush Current	Full Load, 25°C, Cool start, Vin=240VAC			100	Α				
Ik	Safety Ground Leakage Current	Vin=240VAC, Fi=60Hz			0.75	mA				
η	Efficiency	Full Load, Vin=230VAC, Detail to see Rating Chart	Se	See Rating Chart						
△Voi	Line Regulation	Full Load, Vin=100~120VAC	0.5		1	%				
△VoL	Load Regulation	Vin=230VAC, 10~90% Load Change at Condition	2		5	%				
OVP	Over Voltage Protection	Over Voltage Protection	112		132	%				
OLP	Over Load Protection	Recovers automatically after fault condition is removed	110		150	%				
ttr	Time of Transient Response	Full Load, Vin=110VAC			4	ms				
thu	Hold-Up Time	Full Load, Vin=100VAC	Se	ee Rati	ng Chai	rt				
ts	Start-up time	Full Load, Vin=100~240VAC			3	S				
Тс	Temperature Coefficient	Full load, Vin=100~240VAC			±0.04	%/°C				
HV	Dielectric Withstanding Voltage (P-S)	Primary to Secondary			4242	VDC				
Vpg	Dielectric Withstanding Voltage (P-G)	Primary to PE			2121	VDC				
EMI	EMC Emission	Compliance to EN55022 (CISPR22)			В	Class				

Environmental:

Symbol	Characteristic	Condition		Тур.	Max.	Unit
То	Operating Temperature	Detail to see Fig.2 (Derate linearly from 100% load at 50°C to 50% load at 70°C)	0		70	°C
Ts	Storage Temperature	10 ~ 95% RH	-40		85	°C
Но	Operating Humidity	non-condensing	0		95%	RH
Hs	Storage Humidity		0		95%	RH
ESDa	Electro Static Discharge	Air Discharge, IEC61000-4-2			8	kV
ESDc	Electro Static Discharge	Contact Discharge, IEC61000-4-2			4	kV
MTBF	Mean Time Between Failure	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F	100k			h
ELEV	Operating Altitude (Elevation)	All condition			2000	m
VBR	Vibration	10 ~ 500Hz, 10min./1cycle, 60min. each along X, Y, Z axes			5	G
Vsl	Surge Voltage	Line-Neutral			1	kV
Vsg	Surge Voltage	Line-PE & Neutral-PE			2	kV

General

SINPRO



PIN CHART

MODEL	1	2	3	4	5	6	7	8	9	10	11	12	13 (Optional)
SUU150-1XX	OUT	OUT	OUT	OUT	OUT	OUT	RTN	RTN	RTN	RTN	RTN	RTN	PFD

Rating Chart:

MODEL NO.	Setting Voltage Range (Factory setting, can't be adjusted)	Output Current (Based on the output volt.)	Maximum Output Power	Ripple & Noise	Total Regulation	Typ. Efficiency	Typ. No Load Consumption	Hold-Up Time	Protection Mode
	(VDC)	(A)	(W)	(mVp-p)	(%)	(%)	(W)	(ms)	e
SUU150-104	9.0	16.0	144	90	±5	83	3.5	16	Hiccup
SUU150-105	12.0	12.5	150	120	±5	85	3.5	16	Hiccup
SUU150-106	15.0	10.0	150	150	±5	85	3.5	16	Hiccup
SUU150-107	18.0	8.33	150	180	±4	85	3.5	16	Hiccup
SUU150-108	24.0	6.25	150	200	±3	86	3.5	16	Hiccup
SUU150-109	30.0	5.00	150	300	±2	86	3.5	16	Hiccup
SUU150-110	36.0	4.17	150	300	±2	86	3.5	16	Hiccup
SUU150-111	48.0	3.13	150	300	±2	86	3.5	16	Hiccup