

SUU250 SERIES

250W U-bracket Switching Power Supplies For I.T.E.

Description:

The SUU250 series of compact, open frame constructed, AC/DC switching mode power supplies provide 250 Watts of continuous output power. They are suited for use in based systems, portable equipments and many other applications. All models meet FCC Part-15 class B and CISPR-22 class B emission Limits and are designed to comply with UL/c-UL (UL60950-1:2nd Edition) ,TUV/Bauart (EN60950-1:2nd Edition) and new CE ,FCC requirements. All units are 100% burned in and tested.

Features:

- Wide Input Voltage 100 to 240 VAC,47 to 63 Hz
- Internal EMI filter
- Single Output
- Input connector mates with DINKLE#DT-2GN-B01W-02P and DINKLE#ESK750V-02P
- Output connector mates with DINKLE#DT-2GN-B01W-(04P or 06P) and DINKLE#ESK750V-(04P or 06P).
- Input Surge Current and Over Load protection
- Over Voltage Protection (Crowbar Design)
- Active Power Factor Correction
- Class I
- Zero Voltage Switching(ZVS) & High Efficiency up to 93%.
- 2 year warranty



Safety Approvals :



Electrical Characteristics:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Vin	Input Voltage	Operating Voltage	100		240	VAC
fin	Input Frequency		47		63	Hz
PF	Power Factor Correction	Io=Full load, Vin=100~240VAC	0.95	0.97	1.0	
Po	Output Power Range	Vin=100 to 240 VAC	0		250	W
Vo	Output Voltage Range		See rating Chart			V
Io	Output Current Range		See rating Chart			A
Iil	Input Current (Low Line)	Io=Full load, Vin=115VAC			3.3	A
Iih	Input Current (High Line)	Io=Full load, Vin=230VAC			1.23	A
Irl	Low Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=115VAC		30	35	A
Irh	High Line Inrush Current	Io=Full load, 25°C, Cool start, Vin=230VAC		65	70	A
Eff	Efficiency	Io=Full load, Vin=230VAC	89	91	93	%
REG-i	Line Regulation	Io=Full load		0.5	1	%
REG-o	Load Regulation	Vin=230VAC		3	5	%
OVP	Over Voltage Protection		112		132	%
OCp	Over Current Protection		110		150	%
Ttr	Time of Transient Response	Io=Full load to Half Load, Vin=100VAC			4	mS
Thold	Hold-Up Time	Io=Full load, Vin=110VAC	20			mS
Ts	Start Up Time	Io=Full load, Vin=100VAC	0.3	1	2	S
Vp-p	Ripple & Noise (Peak to Peak)	Full load, Vin=90VAC		0.5	1	%
Ilk	Safety Ground Leakage Current	Io=Full load, Vin=240VAC		0.5	0.75	mA
TC	Temperature Coefficient	All output	-0.04		0.04	%/°C

Environmental :

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Toper	Operating Temperature		0	50	70	°C
Tstg	Storage Temperature		-40		85	°C
Ho	Operating Humidity		0		95	%
Hr	Storage Humidity		0		75	%
MTBF	Operating Temperature at 25°C, Calculated per MIL-HDBK-217F		0.1M			Hrs
Pd	Derate linearly from 100% load at 50°C to 50% load at 70°C					

SUU250 SERIES

250W U-bracket Switching Power Supplies For I.T.E.

Safety Specifications:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Vps	Dielectric Withstanding Voltage for Primary to secondary	Primary to secondary	4242			VDC
Vpg	Dielectric Withstanding Voltage for Primary to Ground	Primary to ground	2121			VDC
Ris	Isolation Resistance	Test Voltage=500VDC	50			MΩ
CISPR	EMI requirements for CISPR-22	Vin=220VAC	B			CLASS
FCC	EMI requirements for FCC PART-15	Vin=110VAC	B			CLASS

Output Voltage And Current Rating Chart (Single Output) :

Model Number	Output Voltage	Output Current	Total Regulation	Maximum Output Power
SUU250-105	12 VDC	18.33 A	5%	220W
SUU250-108	24 VDC	10.42 A	3%	250W
SUU250-111	48 VDC	5.21 A	2%	250W

PIN CHART

PIN	1	2	3	4
MODEL				
SUU250-1XX-4PIN	RTN	RTN	OUT	OUT

PIN	1	2	3	4	5	6
MODEL						
SUU250-1XX-6PIN	RTN	RTN	RTN	OUT	OUT	OUT

Note:

1. Dimensions are shown in mm .
2. Weight: 790gs approx.
3. Input connector mates with DINKLE#DT-2GN-B01W-02P And DINKLE#ESK750V-02P.
4. Output connector mates with DINKLE#DT-2GN-B01W-(04P or 06P)and DINKLE#ESK750V-(04P or 06P).

Mechanical Specifications :

