

# SUU180 SERIES

## 180W U-bracket Switching Power Supplies For I.T.E.

### Description:

The SUU180 series of compact, open frame constructed, AC/DC switching mode power supplies provide 180 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(UL 60950-1) ,TUV/Bauart(EN 60950-1) and new CE 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 Molex housing 09-50-3031 and Molex 2478 series crimp terminal
- Output connector mates with Molex housing09-50-3081 and Molex 2478 series crimp terminal
- Output Voltage Available 12,24,48 VDC
- Input Surge Current and Over Load protection
- Over Voltage Protection (Crowbar Design)
- Active Power Factor Correction
- Class I
- Synchronous Rectification
- 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		180	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			2.3	A
Iih	Input Current (High Line)	Io=Full load, Vin=230VAC			0.9	A
Irl	Low Line Inrush Current	Io=Full load, 25°C,Cool start, Vin=115VAC		48	54	A
Irh	High Line Inrush Current	Io=Full load, 25°C,Cool start, Vin=230VAC		100	108	A
Eff	Efficiency	Io=Full load, Vin=230VAC	85	88	90	%
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	16			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		70	°C
Tstg	Storage Temperature		-40		85	°C
Hr	Relative Humidity		5		95	%
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					

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### 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
* SUU180-105	12 VDC	14.58A	5%	175W
SUU180-108	24 VDC	7.50 A	3%	180W
SUU180-111	48 VDC	3.75 A	2%	180W

\* \*: 12V models are required to use DINKLE#DT-2N-B01W-04.

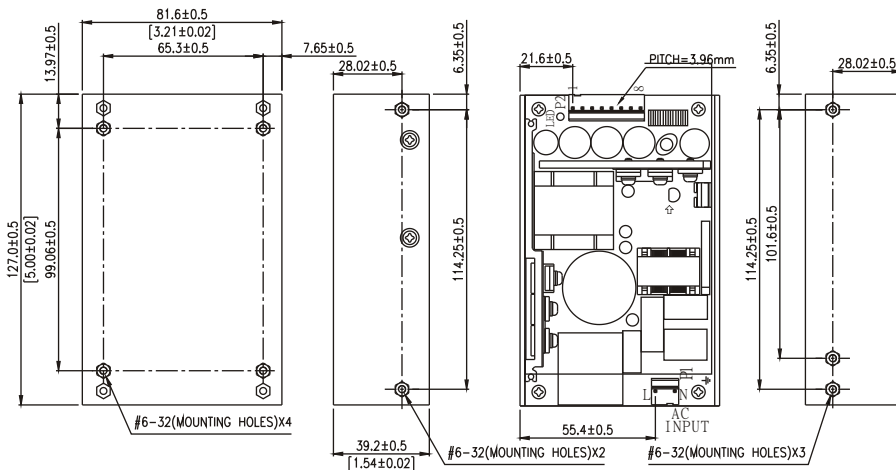
### PIN CHART

PIN	1	2	3	4	5	6	7	8
MODEL	RTN	RTN	RTN	RTN	OUT	OUT	OUT	OUT
SUU180-1XX	RTN	RTN	RTN	RTN	OUT	OUT	OUT	OUT

### Note:

1. Dimensions are shown in mm .
2. Weight: 521gs approx.
3. Input connector mates with Molex housing 09-50-3031 and Molex 2478 series crimp terminal.
4. Output connector mates with Molex housing 09-50-3081 and Molex 2478 series crimp terminal.

### Mechanical Specifications :



### (SUU180-105 ONLY)

12V models are required to use screw terminal

