VSUU-120-D285 Open Frame Switching Power Supply

Features

·Universal Input Voltage 90-264 VAC, 47-63 Hz
·Internal EMI filter
·Input connector mates with Molex housing 09-50-3051 and Molex 2878 series crimp terminal
·Output connector mates with Molex housing 09-50-3061 (or 09-50-3081, or 09-50-3131) and Molex 2878 series crimp terminal
·Input Surge current, over voltage and over load protection
·Power factor correction
·Power fail detect (optional)
·Class I Insulation
·Size : 3"X5"X1.54"
·Two Years Warranty

E176177

Model Number	Output Voltage	Output Current	Total Regulation	Max Output Power
VSUU-120-D285	+28VDC	0.39-3.92A	5%	120W
	+5VDC	0.2-2A	5%	120W

Electrical Characteristics

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Input Voltage		90		264	VAC
Input Frequency		47		63	Hz
Power Factor Correction	Io=Full load, Vin=90~260VAC	0.95	0.97	1.0	
Output Power Range	Vin=90 to 264 VAC	0		120	W
Input Current (low line)	Io=Full load, Vin=115VAC			1.7	A
Input Current (high line)	Io=Full load, Vin=230VAC			1.0	A
Low Line Inrush Current	Io=Full load, 25°C, cool start, Vin=115VAC		12	15	A
High Line Inrush Current	Io=Full load, 25°C, cool start, Vin=230VAC		26	30	A
Efficiency	Io=Full load, Vin=230VAC	70	80	88	%
Line Regulation	Io=Full load		0.5	1	%
Load Regulation	Vin=230VAC		3	5	%
Over Voltage Protection		112		132	%
Over Current Protection		110		150	%
Transient Response	Io=Full load to Half load, Vin=100VAC			4	mS
Hold-Up Time	Io=Full load, Vin=110VAC	16	18	20	mS
Start up time	Io=Full load, Vin=100VAC	0.3	1	2	S
Ripple & Noise (Peak to Peak)	Full load, Vin=90VAC		1	2	%
Safety Ground Leakage Current	I0=Full load, Vin=240VAC		0.4	0.45	mA
Temperature Coefficient	All output	-0.04		0.04	%/°C

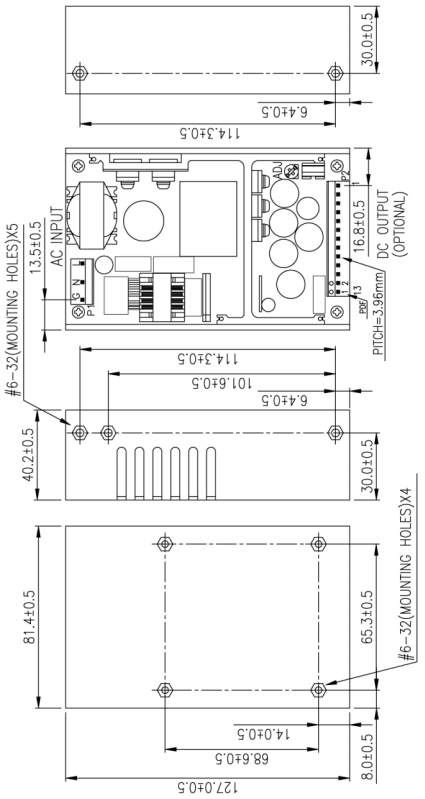
Environmental

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Operating Temperature		0		70	°C
Storage Temperature		-40		85	°C
Relative Humidity		5		95	%
Derate linearly from 100% load at 50°C to 50% load at 70°C					

Safety Specifications

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Dielectric withstanding voltage for primary to secondary	Primary to secondary	4242			VDC
Dielectric withstanding voltage for primary to ground	Primary to ground	2121			VDC
Isolation resistance	Test voltage=500VDC	50			M ohms
EMI requirements for CISPR-22	Vin=220VAC	B			Class
EMI requirements for FCC part-15	Vin=110 VAC	B			Class

Mechanical Specifications



MODEL \ PIN	1	2	3	4	5	6	7	8	9	10	11	12	13 (Optional)
VSBU120-1XX-6PIN	OUT	OUT	OUT	RTN	RTN	RTN							PFD
VSBU120-1XX-8PIN	OUT	OUT	OUT	OUT	RTN	RTN	RTN	RTN					PFD
VSBU120-1XX-13PIN	OUT	OUT	OUT	OUT	OUT	OUT	RTN	RTN	RTN	RTN	RTN	RTN	PFD

MODEL \ PIN	1	2	3	4	5	6	7	8	9	10	11	12	13 (Optional)
VSBU120-219-6PIN	Vo1	Vo1	COM	COM	COM	Vo2							PFD
VSBU120-2XX-13PIN	Vo2	Vo2	Vo1	Vo1	Vo1	Vo1	COM	COM	COM	N/C	COM	COM	PFD
VSBU120-3XX-13PIN	Vo2	Vo2	Vo1	Vo1	Vo1	Vo1	COM	COM	COM	Vo3	COM	COM	PFD

Note: Vo1:Output#1 Vo2:Output#2 Vo3:Output#3

Note:
1. Dimensions are shown in inches mm value.
2. Weight: 330~380gs approx.
3. Input connector mates with Molex housing 09-50-3051 and Molex 2878 series crimp terminal.
4. OUTput connector mates with Molex housing 09-50-3061 (or 09-50-3081,09-50-3131)and Molex 2878 series crimp terminal.