Low Power

SBU120-xxx Series Active PFC meets EN61000-3-2	
Total Power	80 - 120 Watts
Input Voltages	90-264 VAC
Number of Outputs	One - Three

Specifications

ANZ#: Z077a, August 19, 2003

APPLICATIONS

- LAN/RF Communication
- External Storage Devices
- PC peripheral devices
- Multimedia devices
- Testing/Automation/Security Equipment

ENVIRONMENTAL

Operating temperature: 0 to 50 ° C
(De-rating : 2.5% per ° C, from 50ºC -70ºC)
Storage temperature: -40 to 85 ° C
Humidity (Non-Condensing): 5% to 95%
Cooling: Convection
Vibration Frequency: 5 to 50 Hz
MTBF: >80,000 Hours at full load and 25ºC ambient conditions (MIL-217F)

ELECTRICAL SPECIFICATIONS

Input range	90 to 264 VAC, Full range
Frequency	47 to 63 Hz
Inrush current	40.0 Amps maximum at 230VAC, cold start, 25º C
Input current	1.7Amps maximum at 90VAC
Efficiency	80% typical at 230VAC and maximum load
Power Factor	0.97 typical, Full load / 115VAC
EMI filtering	FCC part 15J class B, CISPR 22 class B
Maximum power	120W
Voltage regulation	±5% Max.
Leakage Current	500uA typ.
PFD circuit	Power Fail Detect (optional)
Hold up time	18mS typical at 115VAC and full load
Protection	Over-voltage protection, Short circuit and overload protection: output short circuit, shut-down/latch off

SAFETY

UL, cUL	Approved
TUV EN60 950	Approved
CE	Approved

MODEL INFORMATION – SINGLE OUTPUT

Model	Output Rating #1 (Vdc)	Output Rating #1 (A)	Output Rating #2 (V)	Output Rating #2 (A)	Total Regulation	Ripple/Noise mV p-p	Max. Output (W)
SBU120-101	3 ~ 5	22.00 ~ 20.00	---	---	5 %	1 %	100
SBU120-102	5 ~ 6	22.00 ~18.33	---	---	5 %	1 %	110
SBU120-103	6 ~ 9	19.16 ~12.77	---	---	5 %	1 %	115
SBU120-104	9 ~ 11	13.33 ~10.90	---	---	4 %	1 %	120
SBU120-105	11 ~ 13	10.90 ~9.23	---	---	3 %	1 %	120
SBU120-106	13 ~ 16	9.23 ~7.50	---	---	3 %	1 %	120
SBU120-107	16 ~ 21	7.50 ~ 5.71	---	---	3 %	1 %	120
SBU120-108	21 ~ 27	5.71 ~ 4.44	---	---	2 %	1 %	120
SBU120-109	27 ~ 33	4.44 ~ 3.63	---	---	2 %	1 %	120
SBU120-110	33 ~ 40	3.63 ~3.00	---	---	2 %	1 %	120
SBU120-111	40 ~ 50	3.00 ~ 2.40	---	---	2 %	1 %	120

Notes:

MODEL INFORMATION – DUAL OUTPUTS

Model	Output Rating #1				Output Rating #2				Ripple/Noise	Max. Output
	Vdc	Min. A	Max.A	Reg.	Vdc	Min. A	Max. A	Reg.	mV p-p	(W)
SBU120-200	3.3	1.5	15.0	5 %	12	0.6	6.0	5 %	1 %	120
SBU120-201	5	1.5	15.0	5 %	12	0.6	6.0	5 %	1 %	120
SBU120-202	5	1.5	15.0	5 %	15	0.6	6.0	5 %	1 %	120
SBU120-203	5	1.5	15.0	5 %	24	0.35	3.5	5 %	1 %	120
SBU120-204	3.3	1.5	15.0	5 %	5	0.6	6.0	5 %	1 %	79.5
SBU120-215	5	1.5	15.0	5 %	-24	0.2	2.0	5 %	1 %	120
SBU120-219	28	0.39	3.92	5 %	5	0.2	2.0	5 %	1 %	120

Notes:

MODEL INFORMATION – TRIPLE OUTPUTS

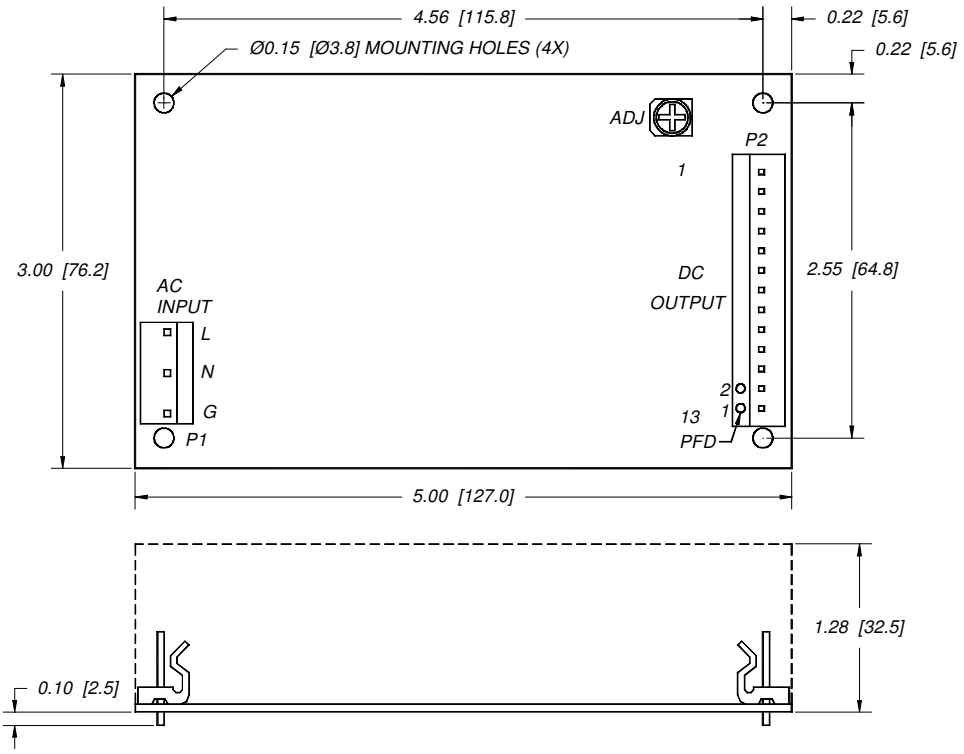
Model	Output Rating #1				Output Rating #2				Output Rating #3				Max.
	Vdc	Min.	Max.	Reg.	Vdc	Min.	Max.	Reg.	Vdc	Min.	Max.	Reg.	Output (W)
SBU120-300	3.3	1.5	15.0	5 %	12	0.6	6.0	5 %	-12	0	0.8	5 %	120
SBU120-300	3.3	1.5	15.0	5 %	12	0.6	6.0	5 %	+12	0	0.8	5 %	120
SBU120-301	5	1.5	15.0	5 %	12	0.6	6.0	5 %	-5	0	0.8	5 %	120
SBU120-301	5	1.5	15.0	5 %	12	0.6	6.0	5 %	+5	0	0.8	5 %	120
SBU120-302	5	1.5	15.0	5 %	12	0.6	6.0	5 %	-12	0	0.8	5 %	120
SBU120-302	5	1.5	15.0	5 %	12	0.6	6.0	5 %	+12	0	0.8	5 %	120
SBU120-303	5	1.5	15.0	5 %	15	0.6	6.0	5 %	-15	0	0.8	5 %	120
SBU120-303	5	1.5	15.0	5 %	15	0.6	6.0	5 %	+15	0	0.8	5 %	120
SBU120-304	5	1.5	15.0	5 %	24	0.35	3.5	5 %	-24	0	0.8	5 %	120
SBU120-304	5	1.5	15.0	5 %	24	0.35	3.5	5 %	-24	0	0.8	5 %	120
SBU120-305	5	1.5	15.0	5 %	24	0.35	3.5	5 %	-12	0	0.8	5 %	120
SBU120-305	5	1.5	15.0	5 %	24	0.35	3.5	5 %	+12	0	0.8	5 %	120
SBU120-306	3.3	1.5	15.0	6 %	12	0.6	6.0	5 %	-5	0	0.8	5 %	120
SBU120-306	3.3	1.5	15.0	6 %	12	0.6	6.0	5 %	+5	0	0.8	5 %	120
SBU120-307	5	1.5	15.0	5 %	10	0.6	6.0	5 %	-10	0	1.0	5 %	120
SBU120-307	5	1.5	15.0	5 %	10	0.6	6.0	5 %	+10	0	1.0	5 %	120
SBU120-308	3.3	1.5	15.0	6 %	5	0.6	6.0	5 %	-12	0	1.0	5 %	86.5
SBU120-308	3.3	1.5	15.0	6 %	5	0.6	6.0	5 %	-12	0	1.0	5 %	86.5

Notes:

MECHANICAL DRAWING

Input connector:
Molex, 09-50-3051 or equivalent

Output connector:
Molex, 09-50-3061 or equivalent
Optional Output connector:
Molex, 09-50-3081 or equivalent
Optional Output connector:
Molex, 09-50-3031



PIN / Model	1	2	3	4	5	6	7	8	9	10	11	12	13 Optional
SBU120-1xx-6pin	V1	V1	V1	RTN	RTN	RTN							PFD
SBU120-1xx-8pin	V1	V1	V1	V1	RTN	RTN	RTN	RTN					PFD
SBU120-1xx-13pin	V1	V1	V1	V1	V1	V1	RTN	RTN	RTN	RTN	RTN	RTN	PFD
SBU120-219-6pin	V1	V1	COM	COM	COM	V2							PFD
SBU120-2xx-13Pin	V2	V2	V1	V1	V1	V1	COM	COM	COM	N/C	COM	COM	PFD
SBU120-3xx-13Pin	V2	V2	V1	V1	V1	V1	COM	COM	COM	V3	COM	COM	PFD