

BSQ-4150-1U

Quad Output U Bracket Power Supply



133.4 x 82 x 38 mm
5.25 x 3.23 x 1.50 inch



Features:

- * Built-in EMI filter, low ripple noise
- * Built-in fan base for additional 12V/0.3A DC FAN
- * Over voltage protection
- * Over load & short circuit protection
- * <70% load free air convection
- * 100% full load burn-in test
- * UL, cUL, CB, CE approved
- * 3 years warranty

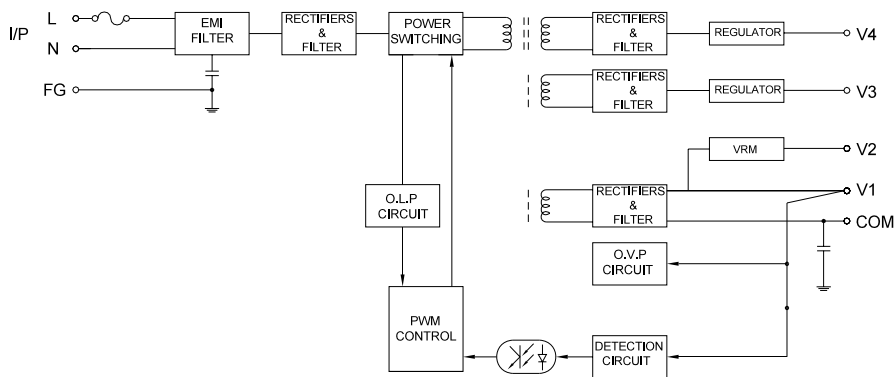
Specification:

INPUT	Voltage	85V ~ 264VAC universal full range or 120V ~ 375VDC.							
	Frequency	47 ---- 63 Hz							
	Current	<4.0A @100V AC input, full load condition							
	Inrush Current (TYP)	35A@115V , 70A@230V AC input. Cold start at 25℃ ambient							
	Leakage Current	<1.5mA@264V AC input							
OUTPUT	MODEL No.	BSQ-4150-1U-1				BSQ-4150-1U-3			
	Voltage	V1	V2	V3	V4	V1	V2	V3	V4
		12V	5V	-12V	-5V	12V	5V	24V	-12V
	Min Load	>0.5A OR >1A		0A	0A	>0.5A OR >1A		0A	0A
	TYP Load	8.5A	4A	0.5A	0.5A	5A	4A	2A	0.5A
	Max Load	10A	4A	1A	1A	8A	4A	3A	1A
	Output Tolerance ②	±3%	±3%	±5%	±5%	±3%	±3%	±5%	±5%
	Ripple Noise MAX. ③	120mV	70mV	150mV	100mV	120mV	70mV	240mV	150mV
	Efficiency (TYP.)	82%				84%			
	Output MAX.	130W				134W			
PROTECTION	Over Voltage	V1 : 13.8 ~16.8V ; Shutdown and latch off, recover after re-start up.							
	OverLoad & ShortCircuit	When power supply over 105%~ 150% max load or short circuit acted, power supply will go into hiccup mode and recover automatically after the fault is removed.							
ELEC. CHAR.	Rise time	<30mS							
	Hold up time	>30mS@230V, full load condition							
	Setup time	<0.5S@100 ~ 240V AC							
ENVIRONMENT	Temperature ④	Operating: -20 ~ +70℃ ; De-rating: 45 ~ 70℃: 2.5%/℃ ; Storage: -40 ~ +85℃							
	Humidity	Operating: 20% ~ 90% RH (non condensing) ; Storage: 10% ~ 95% RH (non condensing)							
SAFETY	Withstand voltage	I/P-O/P:3KVAC, I/P-FG:1.8KVAC, O/P-FG:0.5KVAC, 1minute							
	Isolation resistance	I/P-O/P, I/P-FG, O/P-FG > 100MΩ/500VDC at 25℃ / 70% RH							
	Safety standard	UL 62368-1, 2 nd Edition, 2014-12-01, CAN/CSA C22.2 No.62368-1-14, 2 nd Edition, 2014-12, IEC 62368-1:2014							
EMC	EMI	EN /BS EN 55032 CLASS B 、FCC CFR 47 PART 15 CLASS B							
	EMS	Compliance to EN /BS EN61000-3-2 CLASS A (TYP 80% Load) , EN /BS EN61000-3-3							
OTHERS	EMS	EN /BS EN 55035 : EN /BS EN 61000-4-2,3,4,5,6,8,11							
	Cooling	<70% load free air convection, a 10CFM (min.) DC FAN is required when output exceed 70% load							
	M.T.B.F.	276 k hours							
	Dimension	133.4 x 82 x 38 mm (L*W*H)							
	Packing	N.W.: 0.370Kg / 1pc; 30 pcs / 1.20 CUFT / 1 CTN							
NOTE	① All measurements which not mentioned are based on 230VAC input, output Max at ambient 25℃ / 70%RH								
	② Output tolerance included set up voltage, line regulation and load regulation. The regulation is measured at the condition : when any of output is with 20% ~ 100% max load and the rest of each outputs are with 60% max load, Each output could work within max load but must under total output max.								
	③ Ripple & noise are measured at 100~254VAC input with 10~50℃ condition and 20MHz of bandwidth by using a 10" ~15" twisted pair-wire terminated with a 0.1uF & a 47uF parallel capacitor.								
	④ The operating temperature shall follow the de-rating curve in spec The output load may be requested for decreasing as de-rating curve in spec when low input voltage is under 100VAC.								
	⑤ The power supply is considered a component of end-equipment. The end-equipment must be re-confirmed whether comply with EMC directives.								

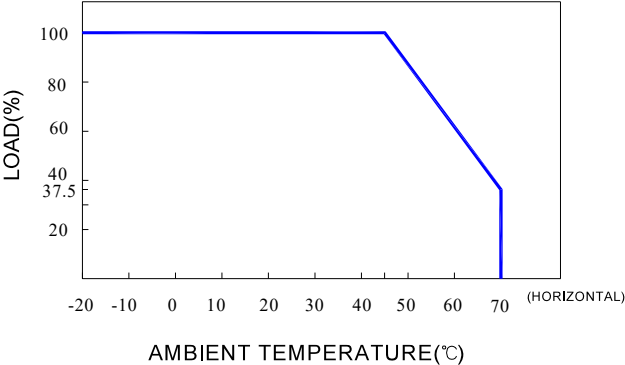


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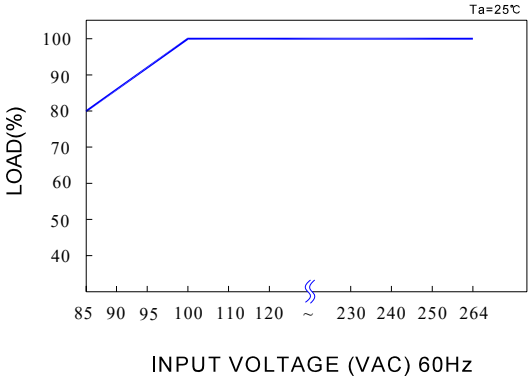
Block Diagram : UQ8-1



De-rating Curve :

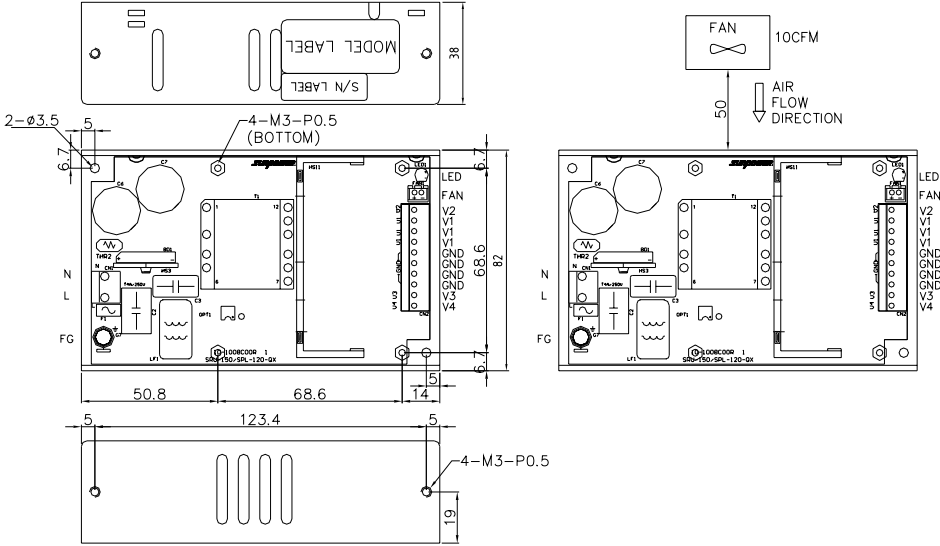


Output De-rating Vs Input Voltage :



Dimension:

(Unit: mm)



NOTES:

TERMINAL BLOCK : I/P : CN1,3P P=3.96mm(Pin 2 CUT), JST B3P-VH or COMPATIBLE

MODEL No.	1	2	3
BSQ-4150-1U-1/3	N	N/C	L

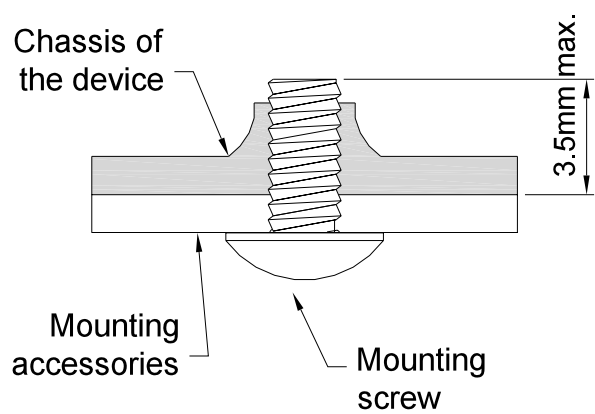
TERMINAL BLOCK : O/P : CN2, 10P, P=3.96mm, JST B10P-VH or COMPATIBLE

MODEL No.	1	2	3	4	5	6	7	8	9	10
BSQ-4150-1U-1/3	V2	V1	V1	V1	GND	GND	GND	GND	V3	V4

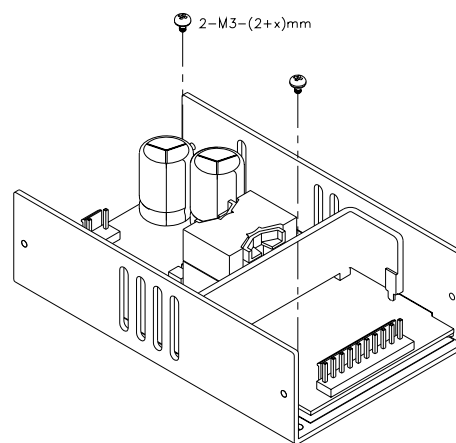


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Installation of Mounting Accessories



This is to keep a safe distance between the screw and internal components



Quick installation diagram

