

120W Quad Output Switching Power Supply



- Features :
- AC input range selected by switch
 - Protections: Short circuit/Over load/Over voltage
 - 100% full load burn-in test
 - Fixed switching frequency at 25KHz



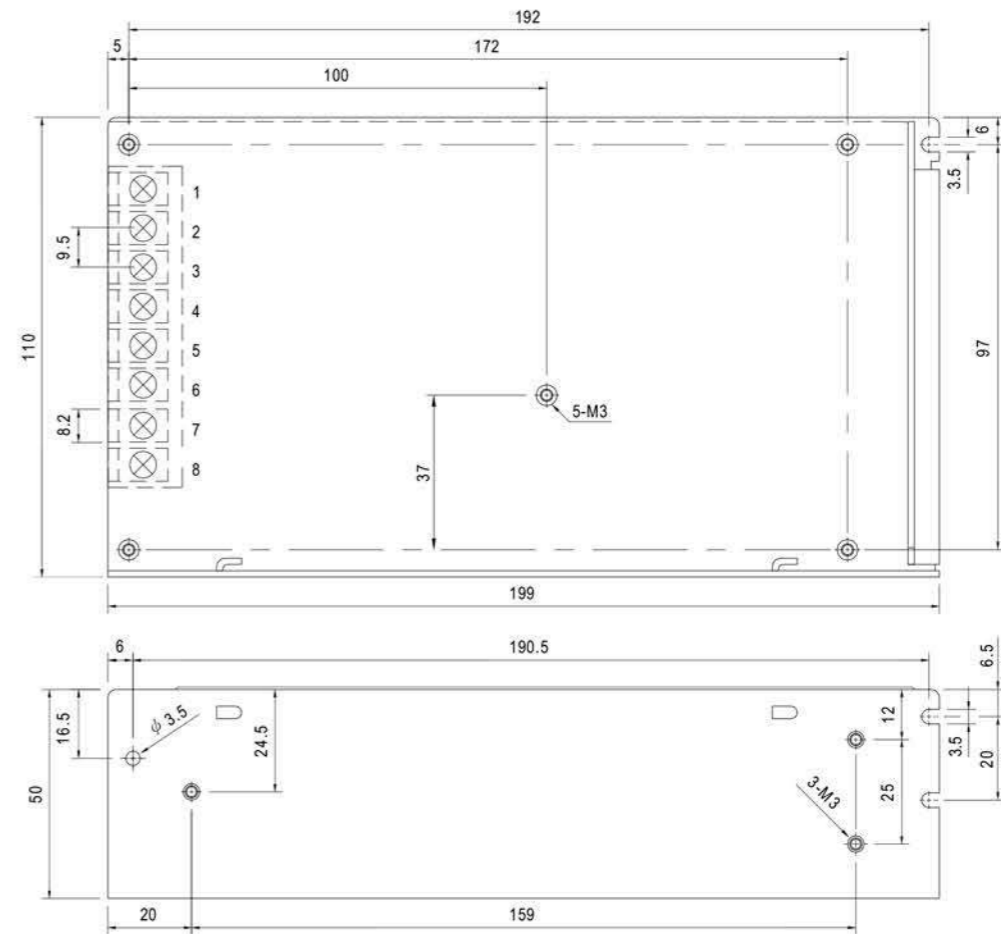
SPECIFICATION

MODEL	Q-120B				Q-120C				Q-120D				
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4
	DC VOLTAGE	5V	12V	-5V	-12V	5V	15V	-5V	-15V	5V	12V	24V	-12V
	RATED CURRENT	11A	4A	1A	1A	10A	3.5A	1A	1A	8A	2A	2A	1A
	CURRENT RANGE	2 ~ 11A	0.5 ~ 4A	0.2 ~ 1A	0.2 ~ 1A	2 ~ 10A	0.5 ~ 3.5A	0.2 ~ 1A	0.2 ~ 1A	2 ~ 8A	0.2 ~ 2A	0.2 ~ 2A	0.2 ~ 1A
	RATED POWER	120W				122.5W				124W			
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	80mVp-p	120mVp-p	80mVp-p	150mVp-p	80mVp-p	150mVp-p	80mVp-p	120mVp-p	180mVp-p	120mVp-p
	VOLTAGE ADJ. RANGE	CH1: 4.75 ~ 5.5V											
	VOLTAGE TOLERANCE Note.3	±2.0%	±6.0%	±6.0%	±6.0%	±2.0%	+10,-5%	±6.0%	+10,-5%	±2.0%	±6.0%	±6.0%	±6.0%
	LINE REGULATION	±0.5%	±1.0%	±1.0%	±1.0%	±0.5%	±1.0%	±1.0%	±1.0%	±0.5%	±1.0%	±1.0%	±1.0%
	LOAD REGULATION	±0.5%	±5.0%	±5.0%	±5.0%	±0.5%	±6.0%	±5.0%	±6.0%	±0.5%	±5.0%	±5.0%	±5.0%
SETUP, RISE, HOLD TIME	200ms, 50ms, 20ms at full load												
INPUT	VOLTAGE RANGE	88 ~ 132VAC/176 ~ 264VAC selected by switch				240 ~ 370VDC							
	FREQUENCY RANGE	47 ~ 63Hz											
	EFFICIENCY (Typ.)	77%				76%				80%			
	AC CURRENT	2.8A/115VAC		1.6A/230VAC									
	INRUSH CURRENT (max.)	COLD START 35A											
LEAKAGE CURRENT	<3.5mA / 240VAC												
PROTECTION	OVER LOAD	105 ~ 135% rated output power Protection type : Shut down o/p voltage, re-power on to recover											
	OVER VOLTAGE	CH1: 5.75 ~ 6.75VDC Protection type : Shut down o/p voltage, re-power on to recover											
ENVIRONMENT	WORKING TEMP.	-10 ~ +60°C (Refer to output load derating curve)											
	WORKING HUMIDITY	20 ~ 90% RH non-condensing											
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH											
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)											
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes											
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 Approved											
	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC											
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC											
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B											
OTHERS	HARMONIC CURRENT	Compliance to EN61000-3-2,-3											
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, Light industry level, criteria A											
	MTBF	261.4K hrs min. MIL-HDBK-217F (25°C)											
NOTE	DIMENSION	199*110*50mm (L*W*H)											
	PACKING	0.86Kg; 16pcs/14.7Kg/0.95CUFT											

120W Quad Output Switching Power Supply

■ Mechanical Specification

Case No. 906 Unit:mm

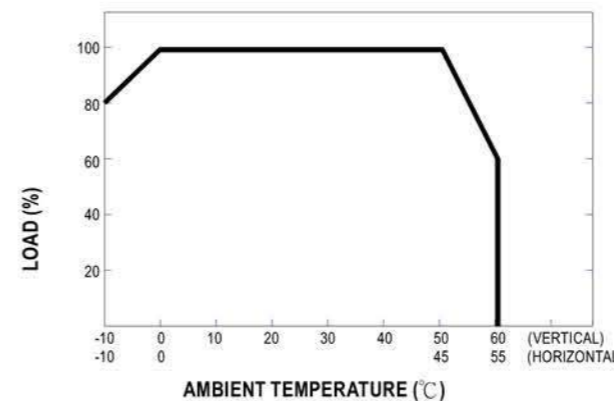


Terminal Pin. No Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	6	DC OUTPUT -V1
2	AC/N	7	DC OUTPUT COM
3	FG	8	DC OUTPUT +V1
4,5	DC OUTPUT		

MODEL	Q-120B	Q-120C	Q-120D
Pin No. 4	+12V	+15V	+24V
Pin No. 5	-12V	-15V	+12V

■ Derating Curve



■ Static Characteristics (B)

