



# MEAN WELL

## SWITCHING POWER SUPPLY

ISO-9001 CERTIFIED MANUFACTURER

# Q-180

## SERIES

- .LOW COST, HIGH RELIABILITY
- .105°C OUTPUT CAPACITOR
- .INTERNATIONAL AC INPUT RANGE
- .HIGH EFFICIENCY, LOW WORKING TEMPERATURE
- .SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT
- .SHORT CIRCUIT, OVERLOAD PROTECTED
- .COMPACT SIZE, LIGHT WEIGHT
- .100% FULL LOAD BURN-IN TEST
- .BUILT IN EMI FILTER, LOW RIPPLE NOISE

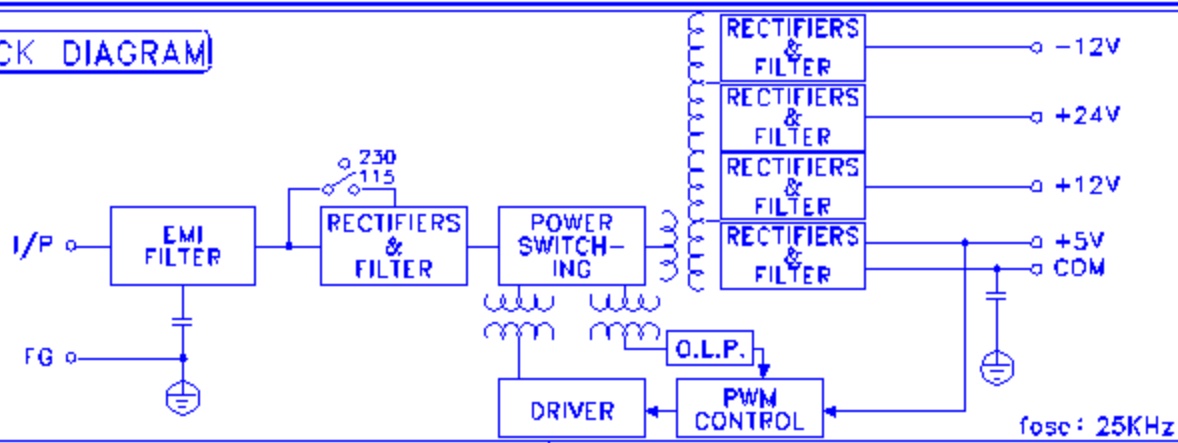


MODEL	CH1	CH2	CH3	CH4
SPECIFICATION				
DC OUTPUT VOLTAGE	5V	12V	24V	-12V
OUTPUT V. TOLERANCE	±2%	±6%	±5%	±8%
OUTPUT RATED CURRENT	8A	2A	4A	1A
OUTPUT CURRENT RANGE	1-10A	0.2-2A	0.5-5A	0.1-1A
RIPPLE & NOISE	80mVp-p	150mVp-p	200mVp-p	180mVp-p
LINE REGULATION	±0.5%	±1%	±1%	±1%
LOAD REGULATION	±0.5%	±4%	±5%	±6%
DC OUTPUT POWER	172W			
EFFICIENCY	80%			
DC VOLTAGE ADJ.	CH1:±10%			
INPUT VOLTAGE RANGE	88~132VAC / 176~264VAC SELECTED BY SWITCH 47~63Hz; 248~370VDC			
AC CURRENT	4A/115V 2A/230V			
INRUSH CURRENT	COLD START 30A/115V 60A/230V			
LEAKAGE CURRENT	<0.5mA/240VAC			
OVERLOAD PROTECTION	105%~135% TYPE:OUTPUT SHUTDOWN RESET:RECYCLE AC ON / OFF			
OVER VOLTAGE PROTECTION	-----			
OVER TEMP. PROTECTION	-----			
TEMP. COEFFICIENT	±0.03% / °C (0~50°C) ON +5V OUTPUT			
SETUP, RISE, HOLD UP TIME	200ms, 50ms, 16ms			
VIBRATION	10~500Hz, 2G 10min/1cycle, PERIOD FOR 60min. EACH AXES			
WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC			
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:500VDC / 100M Ohms			
WORKING TEMP., HUMIDITY	-10°C~+60°C(REFER TO OUTPUT DERATING CURVE), 20%~90% RH			
STORAGE TEMP., HUMIDITY	-20°C~+85°C, 10%~95% RH			
DIMENSION	150*140*86mm CASE:907			
WEIGHT	1.28Kgs			
SAFETY STANDARDS	MEET UL1012 REQUIREMENT (NOT APPLY FOR THE MARK)			
EMC STANDARDS	MEET FCC PART15 J CONDUCTION CLASS A			

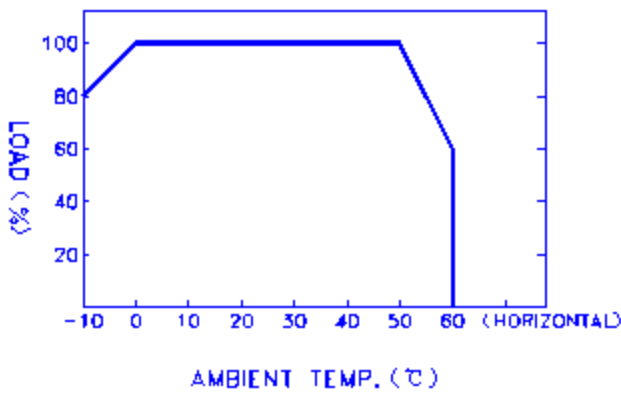
- NOTE :
- 1.ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25°C 70% RH. AMBIENT.
  - 2.TOLERANCE GINCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
  - 3.RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
  - 4.LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
  - 5.LOAD REGULATION IS MEASURED FROM 20% TO 100% RATED LOAD, AND OTHER OUTPUT AT 60% RATED LOAD.
  - 6.EACH OUTPUT PROVIDE UP TO MAXIMUM CURRENT, BUT TOTAL LOAD CAN NOT EXCEED MAX. OUTPUT POWER.

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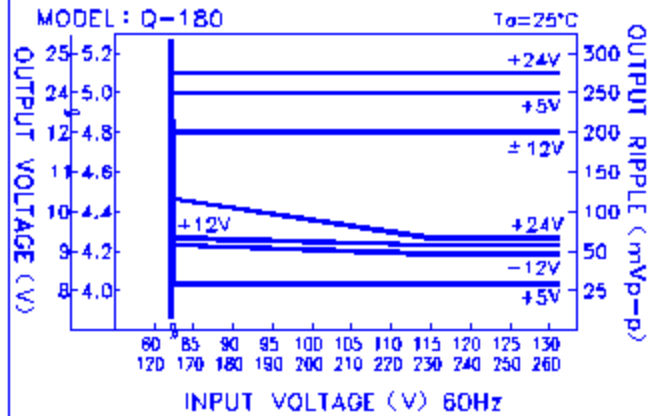
**BLOCK DIAGRAM**



**OUTPUT DERATING**



**STATIC CHARACTERISTICS**



**DIMENSION (mm)**

- ☒ CASE : 907
- ☒ TERMINAL PIN NO. ASSIGNMENT
- ☒ PIN 1,2 : AC INPUT
- ☒ PIN 3 : FG  $\oplus$
- ☒ PIN 4,8 : DC OUTPUT COM
- ☒ PIN 5 : DC OUTPUT -12V
- ☒ PIN 6 : DC OUTPUT +12V
- ☒ PIN 7 : DC OUTPUT +24V
- ☒ PIN 9 : DC OUTPUT +5V

