

# POWERTRONIC

SPECIFICATION / MODEL		ZA MS-60-5	ZA MS-60-12	ZA MS-60-24	ZA MS-60-36	ZA MS-60-48
OUTPUT	DC VOLTAGE	5V	12V	24V	36V	48V
	RATED CURRENT	12A	5A	2.5A	1.67A	1.25A
	CURRENT RANGE	0 ~ 12A	0 ~ 5A	0 ~ 2.5A	0 ~ 1.67A	0 ~ 1.25A
	RATED POWER	60W	60W	60W	60W	60W
	RIPPLE & NOISE (max.)	100mVp-p	100mVp-p	120mVp-p	120mVp-p	120mVp-p
	VOLTAGE ADJ. RANGE	4.75 ~ 5.5V	10.8 ~ 13.2V	21.6 ~ 26.4V	21.6 ~ 26.4V	21.6 ~ 26.4V
	VOLTAGE TOLERANCE	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME	300ms, 50ms, /230VAC    800ms, 50ms/115VAC at full load				
	HOLD TIME	90ms/230VAC    12ms/115VAC at full load				
INPUT	VOLTAGE RANGE	AC85~265V wide range 47~63Hz				
	FREQUENCY RANGE	47 ~ 63Hz				
	EFFICIENCY (Typ.)	79%	86%	87%	87%	87%
	AC CURRENT	2A/115VAC    1A/230VAC				
	INRUSH CURRENT (max.)	COLD START 20A/115VAC 40A/230VAC				
	LEAKAGE CURRENT	<3.5mA / 240VAC				
PROTECTION	OVERLOAD	105 ~ 150% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed				
	OVER VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.2V	27.6 ~ 32.4V	41.4~48.6V	55.2-64.81V
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%/ (0 ~ 50)				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes				
SAFETY & EMC	SAFETY STANDARDS	Desgin refer to UL1012,EN60950-1,EN61347-1,EN-61347-2 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				
	EMS	EN55015,EN55022,EN55024,EN61000-2,EN61000-3,EN61547 approved				
OTHERS	MTBF	50K hrs min. MIL-HDBK-217F (25)				
	DIMENSION	110*78*36mm (L*W*H) 80pcs/Carton ( common packing )				
	PACKING	0.27Kg				
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature.					
	2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.					
	3. Tolerance : includes set up tolerance, line regulation and load regulation.					
	4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.					