

1) Series name 2) Single output 3) Output wattage 4) Universal input 5) Output voltage

- (®) Optional *5
 T : Vertical terminal block
 T1: Horizontal terminal block

 - N: with Cover
 - J1: VH(J.S.T.)connector type R: with Remote ON/OFF

Specification is changed at option, refer to Instruction Manual.

MODEL	PMA60F-3R3	PMA60F-5	PMA60F-12	PMA60F-15	PMA60F-24
MAX OUTPUT WATTAGE[W]	39.6	60	60	60	60
DC OUTPUT	3.3V 12A	5V 12A	12V 5A	15V 4A	24V 2.5A

SPECIFICATIONS

	MODEL		PMA60F-3R3	PMA60F-5	PMA60F-12	PMA60F-15	PMA60F-24		
	VOLTAGE[V]		AC85 - 264 1 φ (Refe	r to the Instruction Ma	anual 1.1)				
Ī	CURRENT[A]	ACIN 100V	0.7typ (lo=100%)						
	CORNEINI [A]	ACIN 200V							
INPUT	FREQUENCY[Hz]		50 / 60 (47 - 63)						
	EFFICIENCY[%]	ACIN 100V	77typ	80typ	80typ	81typ	81typ		
		ACIN 200V	78typ	83typ	82typ	83typ	83typ		
	POWER FACTOR (lo=100%)	ACIN 100V	71						
		ACIN 200V	21						
	INRUSH CURRENT[A]	ACIN 100V							
	INNUSTI CUNNENT[A]	ACIN 200V	2 - 2 C - 2 - 2 - 2 C - 2 - 2 - 2 - 2						
	LEAKAGE CURRENT[mA]		0.09 / 0.18max (ACIN 100V / 240V 60Hz, lo=100%, According to IEC60601-1)						
	VOLTAGE[V]		3.3	5	12	15	24		
	CURRENT[A]		12.0	12.0	5.0	4.0	2.5		
	LINE REGULATION[mV]		20max	20max	48max	60max	96max		
	LOAD REGULATION	[mV]	40max	40max	100max	120max	150max		
	RIPPLE[mVp-p] *1	0 to +50℃	80max	80max	120max	120max	120max		
		-10 - 0℃	140max	140max	160max	160max	160max		
	RIPPLE NOISE[mVp-p] *1	0 to +50℃	120max	120max	150max	150max	150max		
UTPUT		-10 - 0℃	160max	160max	180max	180max	180max		
	TEMPERATURE REGULATION[mV]	0 to +50°C	50max	50max	120max	150max	240max		
		-10 to +50°C	60max	60max	150max	180max	290max		
	DRIFT[mV]	*2	20max	20max	48max	60max	96max		
	START-UP TIME[ms]		250typ (ACIN 100V, Io=100%)						
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)						
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 to 3.60	4.50 to 5.50	10.00 to 13.20	13.20 to 18.00	19.20 to 27.00		
	OUTPUT VOLTAGE SETTING[V]		3.30 to 3.40	5.00 to 5.15	12.00 to 12.48	15.00 to 15.60	24.00 to 24.96		
	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically						
PROTECTION CIRCUIT AND	OVERVOLTAGE PROTECTION[V]		4.00 to 5.25	5.75 to 7.00	15.00 to 18.00	20.00 to 25.00	30.00 to 37.00		
THERS	OPERATING INDICATION		LED (Green)						
	REMOTE ON/OFF		Optional (Required external power source)						
ISOLATION	INPUT-OUTPUT-RC *3		AC4,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)						
	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)						
	OUTPUT·RC-FG *3		AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At Room Temperature)						
	OPERATING TEMP., HUMID. AND	ALTITUDE	-10 to +70°C, 20 - 90%RH (Non condensing), 3,000m (10,000feet) max ★4						
NVIRONMENT	STORAGE TEMP.,HUMID.AND ALTITUDE		-20 to +75℃, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max						
VINONWENT	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis						
	IMPACT		196.1m/s² (20G), 11ms, once each X, Y and Z axis						
AFETY AND	AGENCY APPROVALS UL60601-1, C-UL (CSA-C22.2 No.601.1), EN60601-1								
	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR11-B, CISPR22-B, EN55011-B, EN55022-B						
REGULATIONS	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 *6						
OTHERS +	CASE SIZE/WEIGHT		32×82×135mm [1.2	6 × 3.23 × 5.31 inches	s] (W×H×D) / 350g m	nax (with cover : 395g n	nax)		
	COOLING METHOD		Convection						

- Measured by 20MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKU-GIKEN: RM101).
- *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
- *3 Applicable when Remote ON/OFF (optional) is added. RC is insulated with input, output and FG.
- Derating is required.
- *5 Please contact us about safety approvals for the model with option.

- *6 Please contact us about class C.
- Parallel operation with other model is not possible.
- Derating is required when operated with cover A sound may occur from power supply at peak loading.

PMA