PLA30F

30







High voltage pulse noise type : NAP series Low leakage current type : NAM series

*The EMI/EMC Filter is recommended to connect with several devices.

- ①Series name ②Single output ③Output wattage ④Universal input ⑤Output voltage
- ®Optional *7
 C : with Coating
 J : Connector interface
- T : Vertical terminal block N1: with DIN rail

See 5.1 in Instruction Manual.

SPECIFICATIONS

	MODEL		PLA30F-5	PLA30F-12	PLA30F-15	PLA30F-24	
	VOLTAGE[V]		AC85 - 264 1 φ (Output derating is required at AC85V - 115V. See 1.1 and 3.2 in Instruction Manual) *3				
INPUT		ACIN 100V	0.7typ (lo=90%)				
	CURRENT[A]	ACIN 115V					
		ACIN 230V	0.4typ (lo=100%)				
	FREQUENCY[Hz]		50 / 60 (47 - 63)				
		ACIN 100V	73.0typ (lo=90%)	80.0typ (lo=90%)	81.0typ (lo=90%)	82.5typ (lo=90%)	
	EFFICIENCY[%]	ACIN 115V	74.0typ (lo=100%)	80.5typ (lo=100%)	81.5typ (lo=100%)	83.0typ (lo=100%)	
		ACIN 230V	77.0typ (lo=100%)	81.0typ (lo=100%)	82.0typ (lo=100%)	83.5typ (lo=100%)	
	INRUSH CURRENT[A]	ACIN 100V	V 16typ (lo=90%) Ta=25℃ at cold start				
		ACIN 115V					
		ACIN 230V					
	LEAKAGE CURRENT[mA]		0.65max (ACIN 115V / 240V, 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)				
	VOLTAGE[V]		5	12	15	24	
ОИТРИТ	CURRENT[A]		6	2.5	2	1.3	
		ACIN 85-115V	Output derating is require	ed at ACIN 115V or less (refer	to instruction manual 3.2)		
	WATTAGE[W]	ACIN 115V-264V		30.0	30.0	31.2	
	LINE REGULATION[mV] *4		20max	48max	60max	96max	
	LOAD REGULATION[mV] *4		40max	100max	120max	150max	
		0 to +50°C	80max	120max	120max	120max	
	RIPPLE[mVp-p] *1	-10 to 0℃	140max	160max	160max	160max	
	RIPPLE NOISE[mVp-p] *1	0 to +50°C	120max	150max	150max	150max	
		-10 to 0℃	160max	180max	180max	180max	
	TEMPERATURE REGULATION[mV]	0 to +50°C	50max	120max	150max	240max	
		-10 to +50°C	60max	150max	180max	290max	
	DRIFT[mV] *2		20max	48max	60max	96max	
	START-UP TIME[ms]		150typ (ACIN 115V, Io=100%)				
	HOLD-UP TIME[ms]		20typ (ACIN 115V, Io=100%)				
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		4.50 to 5.50	10.80 to 13.20	13.50 to 16.50	21.60 to 26.40	
	OUTPUT VOLTAGE SETTING[V]		5.00 to 5.15	12.00 to 12.48	15.00 to 15.60	24.00 to 24.96	
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically				
	OVERVOLTAGE PROTECTION[V]		5.75 to 7.00	13.80 to 16.80	17.25 to 21.00	27.60 to 33.60	
	OPERATING INDICATION		LED (Green)				
	REMOTE SENSING		Not provided				
	REMOTE ON/OFF		Not provided				
ISOLATION	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)				
	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)				
	OUTPUT-FG		AC500V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At room temperature)				
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE *5		-20 to +70°C, 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max				
	STORAGE TEMP., HUMID. AND ALTITUDE		-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000 feet) max				
	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axes				
	IMPACT		196.1m/s² (20G), 11ms, once each X, Y and Z axes				
SAFETY AND	AGENCY APPROVALS		UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178, UL508 (Except option -J) Complies with DEN-AN				
NOISE	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B				
REGULATIONS		HARMONIC ATTENUATOR *8		Complies with IEC61000-3-2 class A			



SPECIFICATIONS

OTHERS	CASE SIZE/WEIGHT	38×80×88mm [1.50×3.15×3.46 inches] (Excluding terminal block and screw) (W×H×D) / 330g max	
	COOLING METHOD	Convection	
WARRANTY	Y WARRANTY		

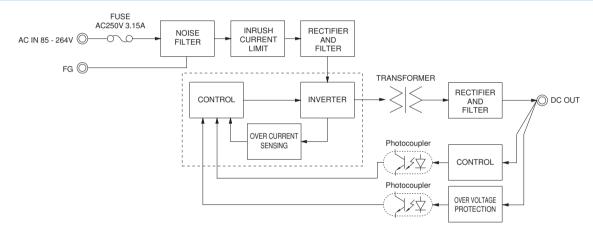
- This is the result of measurement of the testing board with capacitors of 22 μ F and 0.1 μ F placed at 150 mm from the output terminals by a 20 MHz oscilloscope or a ripple-noise meter equivalent to Keisoku Giken RM103.
 - See 1.6 of Instruction Manual for more details.
- *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
 *3 Output power derating is required. As for DC input, consult us for advice.
- Consult us about dynamic load and input response.
- Output power derating is required. See 3.2 in Instruction Manual
- *6 See 3.3 in Instruction Manual for more details.

- Consult us about safety agency approvals for the models with optional functions. Consult us about other classes
- Do not use the power supply in overcurrent conditions or in unspecified input voltage ranges. Otherwise the internal components may be damaged.
- Parallel operation is not possible with this mode.
- Sound noise may be heard from the power supply when used for pulse load

Features

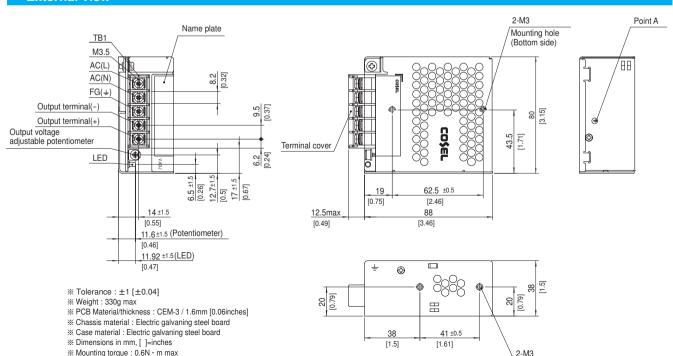
- · Compact design (Depth: 88mm 3.46inches)
- · UL508 approved (Except option -J), and complies with SEMI F47
- · Various connection interface options (vertical terminal [-T], AMP connector [-J])

Block diagram



External view

Screw tightening torque: 1.0N · m max



Mounting hole