

PLA15F

PL A 15 F -□ -□
 ① ② ③ ④ ⑤ ⑥



Recommended EMI/EMC Filter
NAC-04-472



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

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

- ① Series name
- ② Single output
- ③ Output wattage
- ④ Universal input
- ⑤ Output voltage
- ⑥ Optional *7
- C : with Coating
- J : Connector interface
- T : Vertical terminal block
- N1 : with DIN rail

See 5.1 in Instruction Manual.

Information the Home page is the latest.

SPECIFICATIONS

	MODEL	PLA15F-5	PLA15F-12	PLA15F-15	PLA15F-24	
INPUT	VOLTAGE[V]	AC85 - 264 1φ (Output derating is required at AC85V - 115V. See 1.1 and 3.2 in Instruction Manual) *3				
	CURRENT[A]	ACIN 100V	0.4typ (Io=90%)			
		ACIN 115V	0.4typ (Io=100%)			
		ACIN 230V	0.25typ (Io=100%)			
	FREQUENCY[Hz]	50 / 60 (47 - 63)				
	EFFICIENCY[%]	ACIN 100V	72.5typ (Io=90%)	75.5typ (Io=90%)	77.0typ (Io=90%)	78.0typ (Io=90%)
		ACIN 115V	73.5typ (Io=100%)	77.0typ (Io=100%)	78.5typ (Io=100%)	79.0typ (Io=100%)
		ACIN 230V	75.5typ (Io=100%)	78.5typ (Io=100%)	79.5typ (Io=100%)	80.0typ (Io=100%)
	INRUSH CURRENT[A]	ACIN 100V	16typ (Io=90%) Ta=25°C at cold start			
		ACIN 115V	16typ (Io=100%) Ta=25°C at cold start			
ACIN 230V		32typ (Io=100%) Ta=25°C at cold start				
LEAKAGE CURRENT[ma]	0.30max (ACIN 115V / 240V, 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)					
OUTPUT	VOLTAGE[V]	5	12	15	24	
	CURRENT[A]	3	1.3	1	0.7	
	WATTAGE[W]	ACIN 85-115V	Output derating is required at ACIN 115V or less (refer to instruction manual 3.2)			
		ACIN 115V-264V	15.0	15.6	15.0	16.8
	LINE REGULATION[mV] *4	20max	48max	60max	96max	
	LOAD REGULATION[mV] *4	40max	100max	120max	150max	
	RIPPLE[mVp-p] *1	0 to +50°C	80max	120max	120max	120max
		-10 to 0°C	140max	160max	160max	160max
		Io=0 to 35%	160max	240max	240max	280max
	RIPPLE NOISE[mVp-p] *1	0 to +50°C	120max	150max	150max	150max
		-10 to 0°C	160max	180max	180max	180max
		Io=0 to 35%	240max	300max	300max	320max
	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]	200typ (ACIN 115V, Io=100%) *Start-up time is 700 ms typ for less than 1 minute of applying input again from turning off the input voltage.				
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 50MΩ min (At room temperature)				
	INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At room temperature)				
	OUTPUT-FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩ 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/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axes				
	IMPACT	196.1m/s ² (20G), 11ms, once each X, Y and Z axes				
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS	UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178, UL508 (Except option -J) Complies with DEN-AN				
	CONDUCTED NOISE	Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B				
	HARMONIC ATTENUATOR *8	Complies with IEC61000-3-2 class A				