PLA15F

PL A 15 F - - - -









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

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

Optional *7
 C: with Coating
 J: Connector interface

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

T : Vertical terminal block

N1: with DIN rail

See 5.1 in Instruction Manual.

SPECIFICATIONS

Information the Home page is the latest.

	MODEL		PLA15F-5	PLA15F-12	PLA15F-15	PLA15F-24			
	VOLTAGE[V]		AC85 - 264 1 φ (Output de	erating is required at AC85V	- 115V. See 1.1 and 3.2 in Ins	truction Manual) *3			
	ACIN 100V		0.4typ (lo=90%)						
	CURRENT[A]	ACIN 115V	0.4typ (lo=100%)						
		ACIN 230V	0.25typ (lo=100%)						
	FREQUENCY[Hz]		50 / 60 (47 - 63)						
	ACIN 100V		72.5typ (Io=90%)	75.5typ (lo=90%)	77.0typ (lo=90%)	78.0typ (Io=90%)			
NPUT	EFFICIENCY[%]	ACIN 115V	73.5typ (lo=100%)	77.0typ (lo=100%)	78.5typ (lo=100%)	79.0typ (lo=100%)			
		ACIN 230V	75.5typ (Io=100%)	78.5typ (lo=100%)	79.5typ (Io=100%)	80.0typ (Io=100%)			
		ACIN 100V	16typ (Io=90%) Ta=25℃ a		1 1 3 1 (1 1 1 1)	1 1 3 1 1 1 1 1 1 1 1			
	INRUSH CURRENT[A]	ACIN 115V	16typ (Io=100%) Ta=25℃						
		ACIN 230V	32typ (Io=100%) Ta=25℃						
	LEAKAGE CURRENT		71 \ /		ng to IEC60950-1 and DEN-Al	N)			
	VOLTAGE[V]	[]	5	12	15	24			
	CURRENT[A]		3	1.3	1	0.7			
		ACIN 85-115V		d at ACIN 115V or less (refer		V.,			
	WATTAGE[W]	ACIN 115V-264V	15.0	15.6	15.0	16.8			
	LINE REGULATION[n		20max	48max	60max	96max			
	LOAD REGULATION		40max	100max	120max	150max			
	LOAD REGULATION	0 to +50℃	80max	120max	120max	120max			
	DIDDI Elm\/m m1	-10 to 0°C		160max	160max	160max			
	RIPPLE[mVp-p] *1	-							
LITBUT		lo=0 to 35%		240max	240max	280max			
UTPUT	RIPPLE NOISE[mVp-p] *1 TEMPERATURE REGULATION[mV]	0 to +50°C	120max	150max	150max	150max			
		-10 to 0℃	160max	180max	180max	180max			
		lo=0 to 35%		300max	300max	320max			
		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 ADJUSTMEN		4.50 to 5.50	10.80 to 13.20	13.50 to 16.50	21.60 to 26.40			
	OUTPUT VOLTAGE SETT		5.00 to 5.15	12.00 to 12.48	15.00 to 15.60	24.00 to 24.96			
	OVERCURRENT PROTE			and recovers automatically					
ROTECTION	OVERVOLTAGE PROTE	CTION[V]	5.75 to 7.00	13.80 to 16.80	17.25 to 21.00	27.60 to 33.60			
IRCUIT AND	OPERATING INDICAT	ION	LED (Green)						
THERS	REMOTE SENSING		Not provided						
	REMOTE ON/OFF		Not provided						
	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)						
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)						
	OUTPUT-FG	OUTPUT-FG		AC500V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At room temperature)					
	OPERATING TEMP., HUMID. AND	ALTITUDE *5							
NIVIDON::4ENT	STORAGE TEMP., HUMID. AND	ALTITUDE	-20 to +75°C, 20 - 90%RH	(Non condensing), 9,000m	(30,000 feet) max				
NVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s ² (2G),	3minutes period, 60minutes	each along X, Y and Z axes				
	IMPACT		196.1m/s² (20G), 11ms, or	nce each X, Y and Z axes					
SAFETY AND	AGENCY APPROVAL	S	UL60950-1, C-UL (CSA60	950-1), EN60950-1, EN5017	78, UL508 (Except option -J) C	Complies with DEN-AN			
/1110						•			
NOISE	CONDUCTED NOISE	HARMONIC ATTENUATOR *8		Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B					



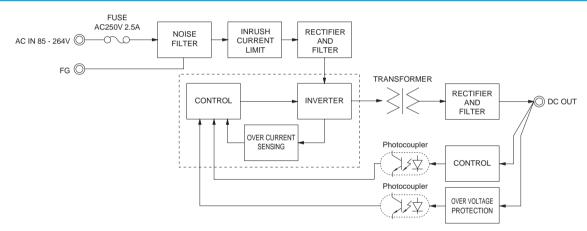
OTHERS	CASE SIZE/WEIGHT	38×80×73mm [1.50×3.15×2.87 inches] (Excluding terminal block and screw) (W×H×D) / 250g max		
OTHERS	COOLING METHOD	Convection		
WARRANTY	WARRANTY *6	5 years (subject to the operating conditions)		

- 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.
 - When the load factor is 0 35%, the switching power loss is reduced by burst operation, which will cause ripple and ripple noise to go beyond the specifications.
- Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
- Output power derating is required. As for DC input, consult us for advice.
- Consult us about dynamic load and input response. Measure the output voltage by using the average mode of the tester to deal with the burst operation at 35% load or less
- Output power derating is required. See 3.2 in Instruction Manual.
- See 3.3 in Instruction Manual for more detail
- 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.

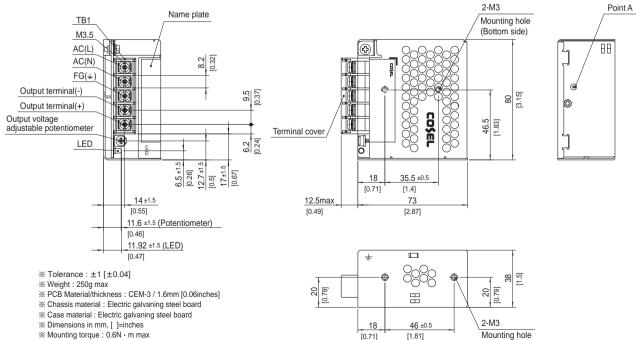
Features

- · Compact design (Depth: 73mm 2.87inches)
- · Low power consumption (1.0W typ AC240Vin, no load at standard model)
- · 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

PLA30F

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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.

See 5.1 in Instruction Manual.

Optional *7 C: with Coating J: Connector interface T : Vertical terminal block

N1: with DIN rail

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

SPECIFICATIONS

Information the Home page is the latest.

	MODEL		PLA30F-5	PLA30F-12	PLA30F-15	PLA30F-24		
	VOLTAGE[V]		AC85 - 264 1 φ (Output o	lerating is required at AC85V	- 115V. See 1.1 and 3.2 in Insti	ruction Manual) *3		
		ACIN 100V	0.7typ (lo=90%)					
	CURRENT[A]	ACIN 115V	0.7typ (lo=100%)					
		ACIN 230V	0.4typ (lo=100%)					
	FREQUENCY[Hz]		50 / 60 (47 - 63)					
INDUT.		ACIN 100V	73.0typ (lo=90%)	80.0typ (lo=90%)	81.0typ (Io=90%)	82.5typ (lo=90%)		
NPUT	EFFICIENCY[%]	ACIN 115V	74.0typ (lo=100%)	80.5typ (Io=100%)	81.5typ (Io=100%)	83.0typ (lo=100%)		
		ACIN 230V	77.0typ (lo=100%)	81.0typ (lo=100%)	82.0typ (lo=100%)	83.5typ (lo=100%)		
		ACIN 100V	16typ (lo=90%) Ta=25℃	at cold start	'	'		
	INRUSH CURRENT[A]	ACIN 115V	16typ (lo=100%) Ta=25℃	at cold start				
		ACIN 230V	32typ (Io=100%) Ta=25℃	at cold start				
	LEAKAGE CURRENT	[mA]	0.65max (ACIN 115V / 24	10V, 60Hz, Io=100%, According	ng to IEC60950-1 and DEN-AN	1)		
	VOLTAGE[V]		5	12	15	24		
	CURRENT[A]		6	2.5	2	1.3		
	MATTA CEDAD	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	30.0	31.2		
	LINE REGULATION[n	nV] *4	20max	48max	60max	96max		
	LOAD REGULATION[mV] *4		40max	100max	120max	150max		
	DIDDLET W. 1	0 to +50°C	80max	120max	120max	120max		
	RIPPLE[mVp-p] *1	-10 to 0°C	140max	160max	160max	160max		
DUTPUT	RIPPLE NOISE[mVp-p] *1	0 to +50°C	120max	150max	150max	150max		
		-10 to 0°C	160max	180max	180max	180max		
		0 to +50°C	50max	120max	150max	240max		
	TEMPERATURE REGULATION[mV]	-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 ADJUSTMEN	IT RANGE[V]		10.80 to 13.20	13.50 to 16.50	21.60 to 26.40		
	OUTPUT VOLTAGE SETT	ING[V]	5.00 to 5.15	12.00 to 12.48	15.00 to 15.60	24.00 to 24.96		
	OVERCURRENT PROTE	CTION	Works over 105% of ratin	g and recovers automatically				
PROTECTION	OVERVOLTAGE PROTE	CTION[V]	5.75 to 7.00	13.80 to 16.80	17.25 to 21.00	27.60 to 33.60		
CIRCUIT AND	OPERATING INDICAT	ION	LED (Green)					
OTHERS	REMOTE SENSING		Not provided					
	REMOTE ON/OFF		Not provided					
	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)					
SOLATION	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)					
	OPERATING TEMP., HUMID. AND	ALTITUDE *5	-20 to +70°C, 20 - 90%RF	H (Non condensing), 3,000m	(10,000 feet) max			
NVIDONMENT	STORAGE TEMP., HUMID. AND	ALTITUDE	-20 to +75°C, 20 - 90%RF	H (Non condensing), 9,000m	(30,000 feet) max			
NVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s² (2G)	, 3minutes period, 60minutes	each along X, Y and Z axes			
	IMPACT		196.1m/s² (20G), 11ms, c	once each X, Y and Z axes				
SAFETY AND	AGENCY APPROVAL	s	UL60950-1, C-UL (CSA6	0950-1), EN60950-1, EN5017	78, UL508 (Except option -J) Co	omplies with DEN-AN		
NOISE	CONDUCTED NOISE		Complies with FCC-B, VC	CCI-B, CISPR22-B, EN55011-	-B, EN55022-B			
REGULATIONS	HARMONIC ATTENUA		Complies with IEC61000-	2 2 alass A				



OTHERS	CASE SIZE/WEIGHT	38×80×88mm [1.50×3.15×3.46 inches] (Excluding terminal block and screw) (W×H×D) / 330g max
OTHERS	COOLING METHOD	Convection
WARRANTY	WARRANTY *6	5 years (subject to the operating conditions)

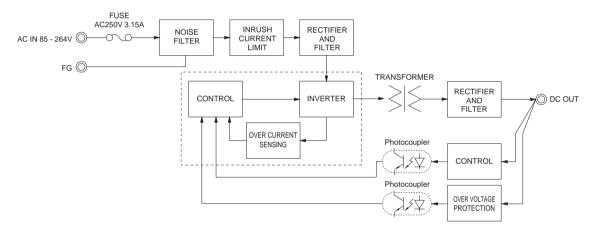
- This is the result of measurement of the testing board with capacitors of 22 μ F and 0.1 μ F placed at 150 mm from the output terminals by a 20 MHz oscilloscope or a ripple-noise meter equivalent to Keisoku-Giken RM103.
 - See 1.6 of Instruction Manual for more details.
- *2 Drift is the change in 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.

- *7 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

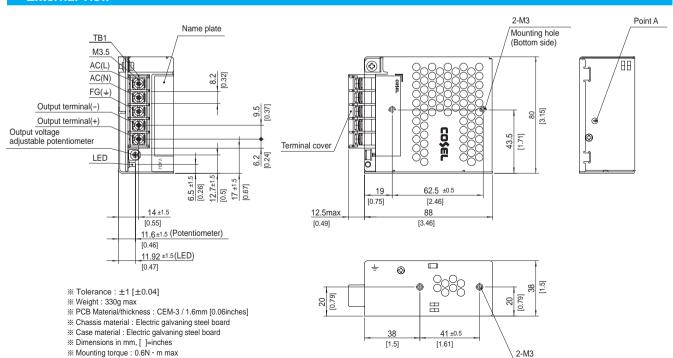
- · Compact design (Depth: 88mm 3.46inches)
- · UL508 approved (Except option -J), and complies with SEMI F47
- · Various connection interface options (vertical terminal [-T], AMP connector [-J])

Block diagram



External view

Screw tightening torque: 1.0N · m max



Mounting hole

PLA50F

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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

- Optional *7
 C: with Coating
 J: Connector interface T : Vertical terminal block
- N1: with DIN rail

See 5.1 in Instruction Manual.

SPECIFICATIONS

Information the Home page is the latest.

or Lon	ICATIONS							
	MODEL		PLA50F-5	PLA50F-12	PLA50F-15	PLA50F-24		
	VOLTAGE[V]		AC85 - 264 1 φ (Output derating is required at AC85V - 115V. See 1.1 and 3.2 in Instruction Manual) *3					
		ACIN 100V	0.6typ (lo=90%) 0.7typ (lo=90%)					
	CURRENT[A]	ACIN 115V	0.6typ (lo=100%)	0.7typ (Io=100%)				
		ACIN 230V	0.3typ (lo=100%)	0.4typ (lo=100%)				
	FREQUENCY[Hz]		50 / 60 (47 - 63)					
		ACIN 100V	74.5typ (Io=90%)	80.0typ (lo=90%)	80.0typ (Io=90%)	81.5typ (lo=90%)		
	EFFICIENCY[%]	ACIN 115V	75.0typ (Io=100%)	80.5typ (lo=100%)	80.5typ (Io=100%)	82.0typ (lo=100%)		
INPUT		ACIN 230V	76.5typ (Io=100%)	82.0typ (lo=100%)	82.0typ (Io=100%)	84.0typ (lo=100%)		
		ACIN 100V	0.97typ (Io=90%)	0.98typ (Io=90%)				
	POWER FACTOR	ACIN 115V	0.97typ (Io=100%)	0.98typ (lo=100%)				
		ACIN 230V	0.85typ (Io=100%)	0.87typ (lo=100%)				
		ACIN 100V	16typ (lo=90%) Ta=25℃ at c	old start				
	INRUSH CURRENT[A]	ACIN 115V	16typ (lo=100%) Ta=25℃ at	cold start				
		ACIN 230V	32typ (lo=100%) Ta=25℃ at	cold start				
	LEAKAGE CURRENT	[mA]	0.75max (ACIN 115V / 240V,	, 60Hz, Io=100%, According to	IEC60950-1 and DEN-AN)			
	VOLTAGE[V]		5	12	15	24		
	CURRENT[A]		8	4.3	3.5	2.2		
	WATTAGE[W]	ACIN 85-115V	Output derating is required a	t ACIN 115V or less (refer to i	nstruction manual 3.2)			
	WATTAGE[W]	ACIN 115V-264V	40.0	51.6	52.5	52.8		
	LINE REGULATION[m	1V] *4	20max	48max	60max	96max		
	LOAD REGULATION[mV] *4	40max	100max	120max	150max		
	RIPPLE[mVp-p] *1	0 to +45°C	80max	120max	120max	120max		
		-10 to 0℃	140max	160max	160max	160max		
DUTPUT	RIPPLE NOISE[mVp-p] *1 TEMPERATURE REGULATION[mV]	0 to +45°C	120max	150max	150max	150max		
		-10 to 0°C	160max	180max	180max	180max		
		0 to +45°C	50max	120max	150max	240max		
		-10 to +45℃	60max	150max	180max	290max		
	DRIFT[mV]		20max	48max	60max	96max		
	START-UP TIME[ms]		350typ (ACIN 115V, Io=100%)					
	HOLD-UP TIME[ms]		20typ (ACIN 115V, Io=100%))				
	OUTPUT VOLTAGE ADJUSTMEN	IT 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		
	OVERCURRENT PROTE	CTION	Works over 105% of rating a	nd recovers automatically	•	•		
PROTECTION	OVERVOLTAGE PROTE	CTION[V]	5.75 to 7.00	13.80 to 16.80	17.25 to 21.00	27.60 to 33.60		
CIRCUIT AND	OPERATING INDICAT	ION	LED (Green)	'		'		
OTHERS	REMOTE SENSING		Not provided					
	REMOTE ON/OFF		Not provided					
	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)					
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff cu	urrent = 10mA, DC500V 50MQ	2 min (At room temperature)			
	OUTPUT-FG			rent = 25mA, DC500V 50M Ω				
	OPERATING TEMP., HUMID. AND	ALTITUDE *5						
	STORAGE TEMP., HUMID. AND	ALTITUDE		lon condensing), 9,000m (30,				
NVIRONMENT	VIBRATION			ninutes period, 60minutes eac				
	IMPACT		196.1m/s² (20G), 11ms, once		<u> </u>			
SAFETY AND	AGENCY APPROVAL	S	. ,, ,, ,	<u> </u>	JL508 (Except option -J) Comp	lies with DEN-AN		
NOISE	CONDUCTED NOISE			-B, CISPR22-B, EN55011-B, E	, .			
REGULATIONS	HARMONIC ATTENUA	ATOR **	Complies with IEC61000-3-2					
		51.	- COP.100 WILL 1200 1000 0 2					



OTHERS	CASE SIZE/WEIGHT	38×80×99mm [1.50×3.15×3.90 inches] (Excluding terminal block and screw) (W×H×D) / 400g max
OTHERS	COOLING METHOD	Convection
WARRANTY	WARRANTY *6	5 years (subject to the operating conditions)

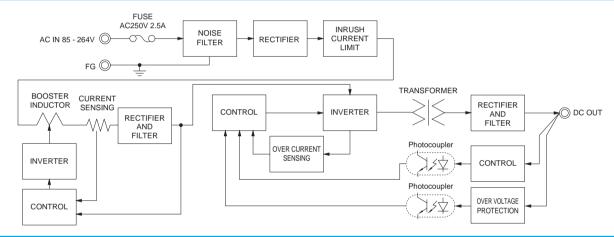
- This is the result of measurement of the testing board with capacitors of 22 μ F and 0.1 μ F placed at 150 mm from the output terminals by a 20 MHz oscilloscope or a ripple-noise meter equivalent to Keisoku-Giken RM103.
 - See 1.6 of Instruction Manual for more details.
- *2 Drift is the change in 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.

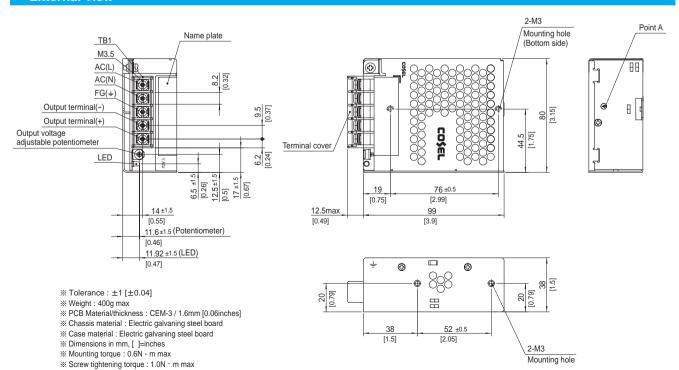
Features

- · Compact design (Depth: 99mm 3.90inches)
- · UL508 approved (Except option -J), and complies with SEMI F47
- · Various connection interface options (vertical terminal [-T], AMP connector [-J])

Block diagram



External view



eco

PLA100F

A 100 F 5









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

- Optional *7
 C: with Coating
 R: Remote on/off
 - (Required external
- power source)
 J : Connector interface
- T : Vertical terminal block
 L : Lower power consumption
 (0.5W max at AC240Vin,
- no load, ErP-compliant)

N1: with DIN rail

See 5.1 in Instruction Manual.

SPECIFICATIONS

* Please consider "PBA100F-5-N" about 5V output with case cover

	CATIONS			A100F-5-N" about 5V ou	·			
	MODEL		PLA100F-12	PLA100F-15	PLA100F-24	PLA100F-36	PLA100F-48	
	VOLTAGE[V]		AC85 - 264 1 φ (Outp (DC input *3)	out derating is required	at AC85V - 115V. See 1.	1 and 3.2 in Instruction N	Manual) *3	
	ACIN 100V							
	CURRENT[A]	ACIN 115V	1.1typ (lo=100%)					
		ACIN 230V	0.6typ (lo=100%)					
	FREQUENCY[Hz]		50 / 60 (47 - 63) (DC	input and 440Hz *3)				
		ACIN 100V	82typ (Io=90%)	83typ (Io=90%)	85typ (Io=90%)	86typ (Io=90%)	86typ (lo=90%)	
NPUT	EFFICIENCY[%]	ACIN 115V	82typ (Io=100%)	83typ (lo=100%)	85typ (Io=100%)	86typ (lo=100%)	86typ (lo=100%)	
NPUI		ACIN 230V	85typ (Io=100%)	86typ (lo=100%)	88typ (lo=100%)	89typ (lo=100%)	89typ (lo=100%)	
		ACIN 100V	0.98typ (lo=90%)					
	POWER FACTOR	ACIN 115V	0.98typ (lo=100%)					
		ACIN 230V	0.95typ (lo=100%) *	Power factor correction	is stopped at AC250V o	or more.		
		ACIN 100V	16typ (Io=90%) Ta=25	5℃ at cold start				
	INRUSH CURRENT[A]	ACIN 115V	16typ (lo=100%) Ta=2	25℃ at cold start				
		ACIN 230V	32typ (lo=100%) Ta=2	25℃ at cold start				
	LEAKAGE CURRENT	[mA]	0.75max (ACIN 115V	/ 240V, 60Hz, Io=100%	, According to IEC60950)-1 and DEN-AN)		
	VOLTAGE[V]		12	15	24	36	48	
	CURRENTIAL	ACIN 85-115V	Output derating is red	uired at ACIN 115V or	less (refer to instruction i	manual 3.2)		
	CURRENT[A]	ACIN 115V-264V	<u> </u>	6.7	4.3	2.8	2.1	
	WATTA OF THE	ACIN 85-115V			less (refer to instruction i			
	WATTAGE[W]	ACIN 115V-264V	100.8	100.5	103.2	100.8	100.8	
	LINE REGULATION[n	1V1 *4	48max	60max	96max	144max	192max	
	LOAD REGULATION		100max	120max	150max	150max	300max	
	[mV] *4			se contact us about det				
ОИТРИТ	RIPPLE[mVp-p]	0 to +40°C	- '	120max	120max	150max	150max	
	*1	-10 to 0°C		160max	160max	200max	400max	
	lo: load factor		500max	500max	500max	500max	500max	
	RIPPLE NOISE[mVp-p]	0 to +40°C		150max	150max	200max	200max	
	*1	-10 to 0°C		180max	180max	240max	500max	
	lo: load factor			600max	600max	600max	600max	
		0 to +40°C	120max	150max	240max	360max	480max	
	TEMPERATURE REGULATION[mV]	-10 to +40°C		180max	290max	440max	600max	
	DRIFT[mV]			60max	96max	144max	192max	
	START-UP TIME[ms]		500typ (ACIN 115V, Io=100%) Ta=25°C					
	HOLD-UP TIME[ms]		20typ (ACIN 115V, Io=100%) 1a=25 C					
	OUTPUT VOLTAGE ADJUSTMEN	IT RANGEIVI	71 \	13.50 to 16.50	21.60 to 26.40	32.40 to 39.60	43.20 to 52.80	
	OUTPUT VOLTAGE SETT		12.00 to 12.48	15.00 to 15.60	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92	
	OVERCURRENT PROTE			rating and recovers auto		,	11.11.10 10.02	
ROTECTION	OVERVOLTAGE PROTE			17.25 to 21.00	27.60 to 33.60	41.40 to 50.40	54.00 to 67.20	
IRCUIT AND	OPERATING INDICAT		LED (Green)					
THERS	REMOTE SENSING		Not provided					
•	REMOTE ON/OFF		Optional (Required external power source. Option -R)					
	INPUT-OUTPUT • RC	*0	<u> </u>	<u> </u>	<u>'</u>	nom temperature)		
	INPUT-FG	+5	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature) AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)					
SOLATION	OUTPUT • RC-FG	*0			,			
	OUTPUT-RC	*9	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At room temperature) AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At room temperature)					
	OPERATING TEMP., HUMID. AND					sing), 3,000m (10,000 fe	et) max	
	STORAGE TEMP., HUMID.AND		\	<u> </u>	, 9,000m (30,000 feet) m	0// / / /	or, max	
NVIRONMENT	VIBRATION	ALITIODE			0minutes each along X,			
	IMPACT			ns, once each X, Y and		I AIIU L AXES		
		<u>e</u>				cont ontion \ Complian	with DEN AN	
SAFETY AND Noise	AGENCY APPROVAL	3			EN55011-B, EN55022-B	cept option -J) Complies	WILLI DEIN-AIN	
REGULATIONS	CONDUCTED NOISE	ATOD ::		· · · · · · · · · · · · · · · · · · ·	EN00011-D, EN00022-B	<u> </u>		
VEGOEVIION9	HARMONIC ATTENU	AIUK *8	Complies with IEC61	UUU-3-2 CIASS A				



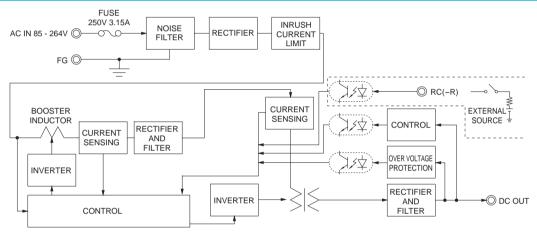
OTHERS	CASE SIZE/WEIGHT	41×97×109mm [1.61×3.82×4.29 inches] (Excluding terminal block and screw) (W×H×D) / 500g max
OTHERS	COOLING METHOD	Convection
WARRANTY	WARRANTY *6	5 years (subject to the operating conditions)

- This is the result of measurement of the testing board with canacitors of 22 U.F. and 0.1 U.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.
 - When the load factor is 0 30%, the switching power loss is reduced by burst operation, which will cause ripple and ripple noise to go beyond the specifications.
- Drift is the change in DC output for an eight hour period after a half-
- hour warm-up at 25℃.
- *3 Output power derating is required. As for DC input, consult us for advice. Consult us about dynamic load and input response. Measure the output
- voltage by using the average mode of the tester to deal with the burst operation at 30% load or less.
- Output power derating is required. See 3.2 in Instruction Manual.
- Consult us about safety agency approvals for the models with optional functions.
- *8 Consult us about other classes.
- The RC terminal is added to ontion -R models. The RC terminal is isolated from input, output, and FG.
- 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

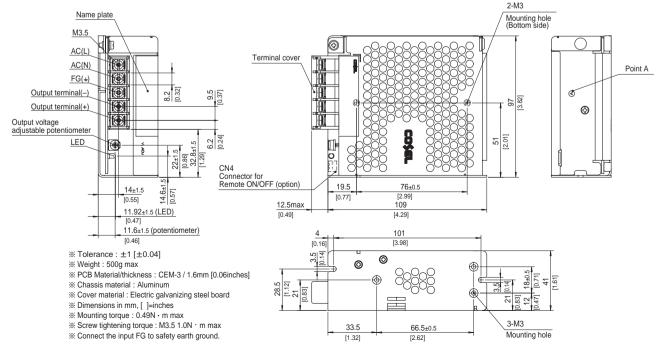
- · Compact design (Depth: 109mm 4.29inches)
- · High efficiency (88%typ PLA100F-24, AC230Vin, 100% load)
- · Low power consumption (1.5W typ AC240Vin, no load at standard model)
- · Lower power consumption (0.5Wmax AC240Vin, no load at option -L: see instruction manual)
- · UL508 approved (Except option -J), and complies with SEMI F47 (see instruction manual 1.1)
- · Various connection interface options (vertical terminal [-T], AMP connector [-J])

Block diagram



External view

The external size of -R option, -J option, -N1 option and -T option models is different from the standard model. See "5. Options and Others" in Instruction Manual for more details.



PLA150F

A 150 F 5









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

- Optional *7
 C: with Coating
 R: Remote on/off (Required external
- power source)
 J : Connector interface
- T : Vertical terminal block
 L : Lower power consumption
 (0.5W max at AC240Vin,
- no load, ErP-compliant)

N1: with DIN rail

See 5.1 in Instruction Manual.

SPECIFICATIONS

* Please consider "PRA150F-5-N" about 5V output with case cover

	MODEL		PLA150F-12	PLA150F-15	PLA150F-24	PLA150F-36	PLA150F-48
	VOLTAGE[V]		AC85 - 264 1 φ (Outp (DC input *3)	out derating is required a	t AC85V - 115V. See 1.	1 and 3.2 in Instruction M	fanual) *3
	ACIN 100V		1.7typ (lo=90%)				
	CURRENT[A]	ACIN 115V	1.6typ (lo=100%)				
		ACIN 230V	0.8typ (lo=100%)				
	FREQUENCY[Hz]		50 / 60 (47 - 63) (DC	input and 440Hz *3)			
		ACIN 100V	84typ (lo=90%)	84typ (lo=90%)	87typ (lo=90%)	87typ (lo=90%)	87typ (lo=90%)
NDUT	EFFICIENCY[%]	ACIN 115V	84typ (lo=100%)	84typ (lo=100%)	87typ (lo=100%)	87typ (lo=100%)	87typ (lo=100%)
NPUT		ACIN 230V	87typ (lo=100%)	87typ (lo=100%)	90typ (lo=100%)	90typ (lo=100%)	90typ (lo=100%)
		ACIN 100V	0.98typ (lo=90%)				
	POWER FACTOR	ACIN 115V	0.98typ (lo=100%)				
		ACIN 230V	0.95typ (lo=100%) *	Power factor correction	is stopped at AC250V of	or more.	
		ACIN 100V	16typ (lo=90%) Ta=25	5°C at cold start			
	INRUSH CURRENT[A]	ACIN 115V	16typ (lo=100%) Ta=2	25°C at cold start			
		ACIN 230V	32typ (lo=100%) Ta=2	25°C at cold start			
	LEAKAGE CURRENT	[mA]			According to IEC60950)-1 and DEN-AN)	
	VOLTAGE[V]		12	15	24	36	48
		ACIN 85-115V	Output derating is req	uired at ACIN 115V or I	ess (refer to instruction i	manual 3.2)	
	CURRENT[A]	ACIN 115V-264V		10	6.4	4.2	3.2
	WATTACETAG	ACIN 85-115V	Output derating is req	uired at ACIN 115V or I	ess (refer to instruction i	manual 3.2)	
	WATTAGE[W]	ACIN 115V-264V	150.0	150.0	153.6	151.2	153.6
	LINE REGULATION[n	1V1 *4	48max	60max	96max	144max	192max
	LOAD REGULATION	lo=30 to 100%	100max	120max	150max	150max	300max
	[mV] *4	lo=0 to 30%	Burst operation (Pleas	se contact us about det	ail)		
	RIPPLE[mVp-p]	0 to +40°C		120max	120max	150max	150max
оитрит	*1	-10 to 0°C		160max	160max	200max	400max
	lo: load factor	lo=0 to 30%	500max	500max	500max	500max	500max
	RIPPLE NOISE[mVp-p]	0 to +40°C	150max	150max	150max	200max	200max
	*1	-10 to 0℃	180max	180max	180max	240max	500max
	lo: load factor	lo=0 to 30%	600max	600max	600max	600max	600max
	TEMPERATURE REALII ATIOM 10	0 to +40°C	120max	150max	240max	360max	480max
	TEMPERATURE REGULATION[mV]	-10 to +40°C	180max	180max	290max	440max	600max
	DRIFT[mV] *2		48max	60max	96max	144max	192max
	START-UP TIME[ms]		500typ (ACIN 115V, Io=100%) Ta=25°C				
	HOLD-UP TIME[ms]		20typ (ACIN 115V, Io=100%)				
	OUTPUT VOLTAGE ADJUSTMEN	IT RANGE[V]	10.80 to 13.20	13.50 to 16.50	21.60 to 26.40	32.40 to 39.60	43.20 to 52.80
	OUTPUT VOLTAGE SETT		12.00 to 12.48	15.00 to 15.60	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92
	OVERCURRENT PROTE	CTION	Works over 105% of r	ating and recovers auto	matically		
ROTECTION	OVERVOLTAGE PROTE		13.80 to 16.80	17.25 to 21.00	27.60 to 33.60	41.40 to 50.40	54.00 to 67.20
IRCUIT AND	OPERATING INDICAT	ION	LED (Green)				
THERS	REMOTE SENSING		Not provided				
	REMOTE ON/OFF		<u> </u>	ternal power source. O	otion -R)		
	INPUT-OUTPUT • C	*9					
COL ATION	INPUT-FG				C500V 50MΩ min (At re		
SOLATION	OUTPUT • RC-FG	*9	AC500V 1minute, Cut	toff current = 100mA, D	C500V 50MΩ min (At ro	om temperature)	
	OUTPUT-RC	*9			C500V 50MΩ min (At ro	· · · · · ·	
	OPERATING TEMP., HUMID. AND	ALTITUDE *5				sing), 3,000m (10,000 fee	et) max
WINDOWSELT	STORAGE TEMP., HUMID. AND		` '		9,000m (30,000 feet) m		
NVIRONMENT	VIBRATION				Ominutes each along X,		
	IMPACT			ns, once each X, Y and Z			
SAFETY AND	AGENCY APPROVAL	S				ept option -J) Complies	with DEN-AN
NOISE	CONDUCTED NOISE			, · · · · · · · · · · · · · · · · · · ·	EN55011-B, EN55022-B	· · · · · · · · · · · · · · · · · · ·	
NOISE							





OTHERS	CASE SIZE/WEIGHT	41×97×129mm [1.61×3.82×5.08 inches] (Excluding terminal block and screw) (W×H×D) / 600g max
OTHERS	COOLING METHOD	Convection
WARRANTY	WARRANTY *6	5 years (subject to the operating conditions)

This is the result of measurement of the testing board with capacitors of 22 LIF and 0.1 LIF placed at 150 mm from the output terminals by a 20. MHz oscilloscope or a ripple-noise meter equivalent to Keisoku-Giken

See 1.6 of Instruction Manual for more details.

When the load factor is 0 - 30%, the switching power loss is reduced by burst operation, which will cause ripple and ripple noise to go beyond the specifications

Drift is the change in DC output for an eight hour period after a half-

hour warm-up at 25℃.

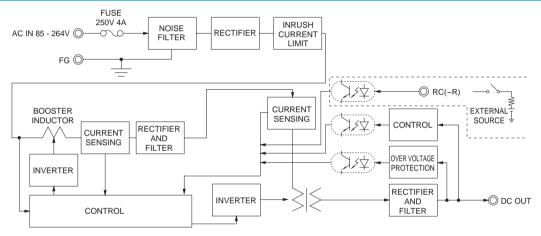
- Output power derating is required. As for DC input, consult us for advice Consult us about dynamic load and input response. Measure the output voltage by using the average mode of the tester to deal with the burst operation at 30% load or less.
- Output power derating is required. See 3.2 in Instruction Manual.
- 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

- The RC terminal is added to option -R models. The RC terminal is isolated from input, output, and FG.
- 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
- pulse load.

Features

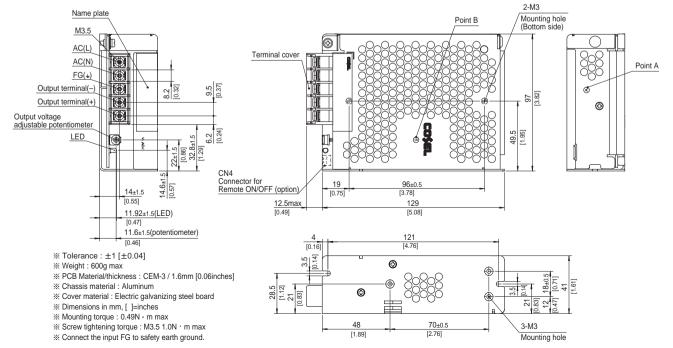
- · Compact design (Depth: 129mm 5.08inches)
- · High efficiency (90%typ PLA150F-24, AC230Vin, 100% load)
- · Low power consumption (1.5W typ AC240Vin, no load at standard model)
- · Lower power consumption (0.5Wmax AC240Vin, no load at option -L: see instruction manual)
- · UL508 approved (Except option -J), and complies with SEMI F47 (see instruction manual 1.1)
- · Various connection interface options (vertical terminal [-T], AMP connector [-J])

Block diagram



External view

The external size of -R option, -J option, -N1 option and -T option models is different from the standard model. See "5. Options and Others" in Instruction Manual for more details.



PLA300F

300





- 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

- output voltage adjustment
 - U: Low input voltage stop (Complies with SEMI F-47) R: Remote on/off

 - (Required external power source)
 - F4: Low speed fan
- T2: Horizontal terminal block (non-screw-hold type)

See 5.1 in Instruction Manual.

SPECIFICATIONS

	MODEL		PLA300F-5	PLA300F-12	PLA300F-15	PLA300F-24	PLA300F-36	PLA300F-48		
	VOLTAGE[V]			AC85 - 264 1 φ (Output derating is required at AC85V - 115V. See 1.1 and 3.2 in Instruction Manual) *3						
			(DC input and AC265 - 277V input *3)							
		ACIN 100V	3.1typ (lo=90%) 3.4typ (lo=90%)							
	CURRENT[A]	ACIN 115V	3.0typ (lo=100%)	3.3typ (lo=100%)						
		ACIN 230V	1.5typ (lo=100%)	1.7typ (lo=100%)						
	FREQUENCY[Hz]		50 / 60 (47 - 63) (D	C input and 440Hz	*3)					
	ACIN 100V		73typ (lo=90%)	78typ (lo=90%)	80typ (Io=90%)	84typ (lo=90%)	84typ (lo=90%)	84typ (lo=90%)		
INDUT	EFFICIENCY[%]	ACIN 115V	74typ (lo=100%)	78typ (lo=100%)	80typ (Io=100%)	84typ (lo=100%)	84typ (lo=100%)	84typ (lo=100%)		
INPUT		ACIN 230V	77typ (lo=100%)	81typ (lo=100%)	83typ (Io=100%)	87typ (lo=100%)	87typ (lo=100%)	87typ (lo=100%)		
		ACIN 100V	0.98typ (lo=90%)							
	POWER FACTOR	ACIN 115V	0.98typ (lo=100%)							
		ACIN 230V	0.95typ (lo=100%)							
		ACIN 100V	20typ (lo=90%) Ta=	25°C at cold start						
	INRUSH CURRENT[A]	ACIN 115V	20typ (Io=100%) Ta	=25°C at cold start						
		ACIN 230V	40typ (lo=100%) Ta	=25°C at cold start						
	LEAKAGE CURRENT	[mA]	0.75max (ACIN 115	5V / 240V, 60Hz, lo=	100%, According to	IEC60950-1 and DE	N-AN)			
	VOLTAGE[V]	-	5	12	15	24	36	48		
	CUDDENTIAL	ACIN 85-115V	Output derating is r	equired at ACIN 11	5V or less (refer to in:	struction manual 3.2)			
	CURRENT[A]	ACIN 115V-264V	50	25	20	12.5	8.4	6.3		
	14/4	ACIN 85-115V	Output derating is r	equired at ACIN 11	5V or less (refer to in:	struction manual 3.2)	1		
	WATTAGE[W]	ACIN 115V-264V	250	300	300	300	302.4	302.4		
	LINE REGULATION[n	nV] *4	20max	48max	60max	96max	144max	192max		
	LOAD REGULATION	•	40max	100max	120max	150max	150max	300max		
	RIPPLE[mVp-p]	0 to +50°C	80max	120max	120max	120max	150max	150max		
	*1	-10 to 0℃	140max	160max	160max	160max	160max	400max		
DUTPUT	RIPPLE NOISE[mVp-p]	0 to +50°C	120max	150max	150max	150max	200max	200max		
	*1	-10 to 0℃	160max	180max	180max	180max	240max	500max		
		0 to +50℃	50max	120max	150max	240max	360max	480max		
	TEMPERATURE REGULATION[mV]	-10 to +50°C	75max	180max	180max	290max	440max	600max		
	DRIFT[mV]	*2	20max	48max	60max	96max	144max	192max		
	START-UP TIME[ms]		300typ (ACIN 115V, Io=100%)							
	HOLD-UP TIME[ms]		20typ (ACIN 115V,	· · · · · · · · · · · · · · · · · · ·						
	OUTPUT VOLTAGE ADJUSTMEN	NT RANGE[V]		10.80 to 13.20	13.50 to 16.50	21.60 to 26.40	32.40 to 39.60	43.20 to 52.80		
	OUTPUT VOLTAGE SETT		5.00 to 5.15	12.00 to 12.48	15.00 to 15.60	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92		
	OVERCURRENT PROTE		Works over 105% o	of rating and recover	s automatically					
PROTECTION	OVERVOLTAGE PROTE		5.75 to 7.00	13.80 to 16.80	17.25 to 21.00	27.60 to 33.60	41.40 to 50.40	55.20 to 67.20		
CIRCUIT AND	OPERATING INDICAT	ION	LED (Green)				'			
OTHERS	REMOTE SENSING		Not provided							
	REMOTE ON/OFF		<u> </u>	external power sou	rce. Option -R)					
	INPUT-OUTPUT • RC	*10	· · ·		mA, DC500V 50MΩ	min (At room tempe	rature)			
001 47101	INPUT-FG			<u>'</u>	mA, DC500V 50MΩ					
SOLATION	OUTPUT • RC-FG	*10			mA, DC500V 50MΩ					
	OUTPUT-RC	*10	AC500V 1minute, 0	Cutoff current = 100	mA, DC500V 50MΩ	min (At room temper	rature)			
	OPERATING TEMP., HUMID. AND	ALTITUDE *5			ed), 20 - 90%RH (No			(
	STORAGE TEMP., HUMID.AND				nsing), 9,000m (30,00	0,	, , , , , , , , , , , , , , , , , , , ,			
NVIRONMENT	VIBRATION				riod, 60minutes each	· · · · · · · · · · · · · · · · · · ·	es			
	IMPACT			1ms, once each X,		<u> </u>				
SAFETY AND	AGENCY APPROVAL	S	, ,,		0950-1, EN50178 Co	mplies with DEN-AN	1			
NOISE	CONDUCTED NOISE				22-B, EN55011-B, EN	·				
REGULATIONS	HARMONIC ATTENUA	ATOR *9	Complies with IEC6		,	-				
				0 = 0.00071						



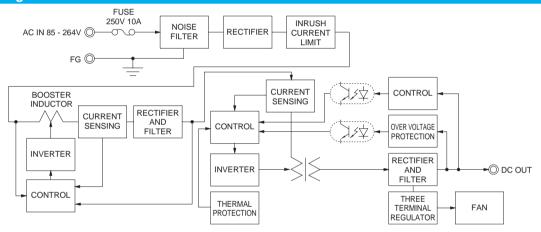
OTHERS	CASE SIZE/WEIGHT	102×41×190mm [4.02×1.61×7.48 inches] (Excluding terminal block and screw) (W×H×D) / 1.0kg max
OTHERS	COOLING METHOD *8	Forced cooling (internal fan)
WARRANTY	WARRANTY *6	5 years (subject to the operating conditions)

- This is the result of measurement of the testing board with capacitors of 22 LIF and 0.1 LIF placed at 150 mm from the output terminals by a 20. MHz oscilloscope or a ripple-noise meter equivalent to Keisoku-Giken
 - 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 arm-up at 25℃
- Output power derating is required. Consult us if the power supply needs
- to be used for DC input, 440Hz input or AC265-277V input.
- Consult us about dynamic load and input response.
- Output power derating is required. See 3.2 in Instruction Manual. See 3.3 in Instruction Manual for more details
- Consult us about safety agency approvals for the models with optional functions.
- The fan speed slows down at no load. Consult us about other classes
- *10 The RC terminal is added to option -R models. The RC terminal is
- isolated from input, output, and FG.
- Do not use the power supply in overcurrent conditions or in unspecified input voltage ranges. Otherwise the internal components may be
- Parallel operation is not possible with this mode
- Sound noise may be heard from the power supply when used for

Features

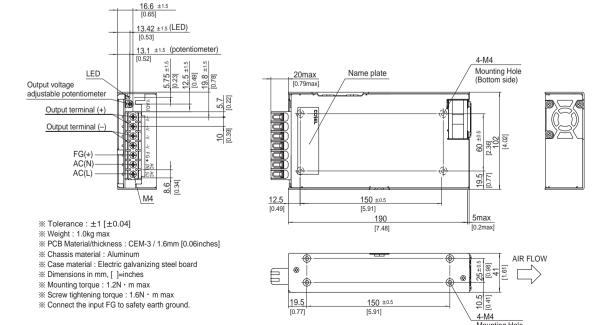
- · Cost-effective
- · Longer life (see Instruction Manual)
- · Low profile (meets 1U height = 41 mm or 1.61 inches)
- ·Wide operating temperature range (-20°C to +70°C see instruction manual)
- · Screw hold type terminal block
- · Slow fan speed at no load
- · Many optional functions
- · Complies with SEMI F-47 (-U option, see Instruction Manual for details)

Block diagram



External view

The external size of -V option, -R option, and -T2 option models is different from the standard model. See "5. Options and Others" in Instruction Manual for more details.



PLA600F

600



Recommended EMI/EMC Filter NAC-16-472

- 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
 G: Low leakage current
 V: External potentiometer for output voltage adjustment
 U: Low input voltage stop
 (Complies with SEMI F-47)
 W: Parallel operation,
 LV alarm Remote sensing
 R: Remote on/off
 (Required external power source)
 F4: Low speed fan

 - F4: Low speed fan
 T2: Horizontal terminal block
 - (non-screw-hold type)

See 5.1 in Instruction Manual.

SPECIFICATIONS

	MODEL		PLA600F-5	PLA600F-12	PLA600F-15	PLA600F-24	PLA600F-36	PLA600F-48
	VOLTAGE[V]				uired at AC85V - 115	V. See 1.1 and 3.2 in	n Instruction Manual)	*4
INPUT			(DC input and AC265 - 277V input *4)					
	CURRENT[A]	ACIN 100V	6.2typ (Io=90%) 6.7typ (Io=90%)					
		ACIN 115V	6.0typ (lo=100%)	6.5typ (lo=100%)				
	ACIN 2		3.0typ (lo=100%)	3.2typ (lo=100%)				
	FREQUENCY[Hz]		50 / 60 (47 - 63) (DC input and 440Hz *4)					
		ACIN 100V	74typ (lo=90%)	81typ (Io=90%)	81typ (lo=90%)	84typ (lo=90%)	85typ (lo=90%)	85typ (lo=90%)
	EFFICIENCY[%]	ACIN 115V	75typ (lo=100%)	81typ (Io=100%)	81typ (lo=100%)	84typ (lo=100%)	85typ (lo=100%)	85typ (lo=100%)
		ACIN 230V	77typ (lo=100%)	84typ (Io=100%)	84typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)
	POWER FACTOR	ACIN 100V	0.98typ (lo=90%)					
		ACIN 115V	0.98typ (lo=100%)					
		ACIN 230V	0.95typ (lo=100%)					
	INRUSH CURRENT[A]	ACIN 100V	20/40typ (Io=90%) (Primary inrush current /Secondary inrush current) (More than 3sec to re-start)					
		ACIN 115V	20/40typ (lo=100%) (Primary inrush current /Secondary inrush current) (More than 3sec to re-start)					
		ACIN 230V	40/40typ (lo=100%) (Primary inrush current /Secondary inrush current) (More than 3sec to re-start)					
	LEAKAGE CURRENT[mA]		1.5max (ACIN 115V / 240V, 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)					
	VOLTAGE[V]		5	12	15	24	36	48
ОUТРUТ		ACIN 85-115V	Output derating is r	equired at ACIN 11	5V or less (refer to in:	struction manual 3.2)	
	CURRENT[A]	ACIN 115V-264V	100	50	40	25	16.7	12.5
		ACIN 85-115V	Output derating is r	equired at ACIN 11	5V or less (refer to in:	struction manual 3.2)	•
	WATTAGE[W]	ACIN 115V-264V	500	600	600	600	601.2	600
	LINE REGULATION[n	nV] *8	20max	48max	60max	96max	144max	192max
	LOAD REGULATION	•	40max	100max	120max	150max	150max	300max
	RIPPLE[mVp-p]	0 to +50℃	80max	120max	120max	120max	150max	150max
	*1	-20 to 0°C	140max	160max	160max	160max	160max	400max
	RIPPLE NOISE[mVp-p] *1 TEMPERATURE REGULATION[mV]	0 to +50°C	120max	150max	150max	150max	200max	200max
		-20 to 0°C	160max	180max	180max	180max	240max	500max
		0 to +50°C	50max	120max	150max	240max	360max	480max
		-20 to +50°C	75max	180max	180max	290max	440max	600max
	DRIFT[mV] *2		20max	48max	60max	96max	144max	192max
	START-UP TIME[ms]		300typ (ACIN 115V, Io=100%)					
	HOLD-UP TIME[ms]		20typ (ACIN 115V, Io=100%)					
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]			10.80 to 13.20	13.50 to 16.50	21.60 to 26.40	32.40 to 39.60	43.20 to 52.80
	OUTPUT VOLTAGE SETTING[V]		5.00 to 5.15	12.00 to 12.48	15.00 to 15.60	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION			of rating and recover			1	1
	OVERVOLTAGE PROTECTION[V]		5.75 to 7.00	13.80 to 16.80	17.25 to 21.00	27.60 to 33.60	41.40 to 50.40	55.20 to 67.20
	OPERATING INDICATION		LED (Green)					
	REMOTE SENSING		Optional (Option -W)					
	REMOTE ON/OFF		Optional (Required external power source. Option -R)					
ISOLATION	INPUT-OUTPUT • RC *3							
	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)					
	OUTPUT • RC-FG *3							
	OUTPUT-RC *3		AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At room temperature)					
	OPERATING TEMP., HUMID. AND ALTITUDE *5		-20 to +70°C (Output derating is required), 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					
ENVIRONMENT	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 Complies with DEN-AN					
IOISE	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B					
REGULATIONS			Complies with IEC61000-3-2 class A					
	I HARINGINIC AT LENUA	AIUK *IU	Compiles with IECt	01000-0-2 01000 A				





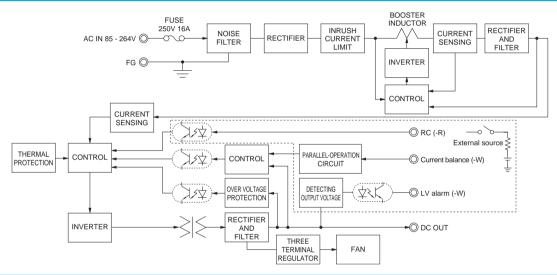
OTHERS	CASE SIZE/WEIGHT	120 X 61 X 215mm [4.72 X 2.40 X 8.46 inches] (Excluding terminal block and screw) (WX HXD) / 2.0kg max			
	COOLING METHOD *9	Forced cooling (internal fan)			
WARRANTY	WARRANTY *6	5 years (subject to the operating conditions)			

- This is the result of measurement of the testing board with capacitors of $22\,\mu\,\text{F}$ and 0.1 $\mu\,\text{F}$ 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. Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25 °C.
- The RC terminal is added to option -R models. The RC terminal is isolated from input, output, and FG.
- Output power derating is required. Consult us if the power supply needs to be used for DC input, 440Hz input or AC265-277V input. Output power derating is required. See 3.2 in Instruction Manual.
- See 3.3 in Instruction Manual for more details
- *7 Consult us about safety agency approvals for the models with optional functions.
- Consult us about dynamic load and input response
- The fan speed slows down at no load *10 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 allowed for PLA600F models with the –W option only. Sound noise may be heard from the power supply when used for pulse load.

Features

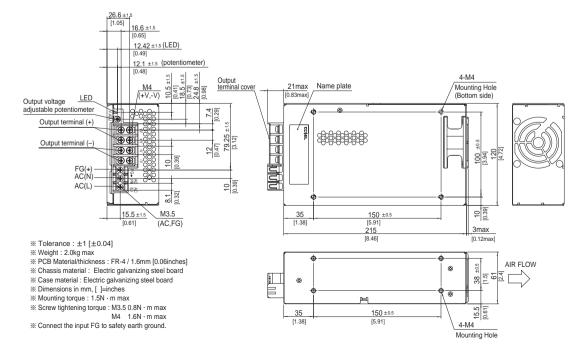
- · Cost-effective
- · Longer life (see Instruction Manual)
- · Low profile (meets 1U height = 41 mm or 1.61 inches)
- · Wide operating temperature range (-20°C to +70°C see instruction manual)
- · Screw hold type terminal block
- · Slow fan speed at no load
- · Many optional functions
- · Complies with SEMI F-47 (-U option, see Instruction Manual for details)

Block diagram



External view

The external size of -V option, -W option, -R option, and -T2 option is different from the standard model. See "5. Options and Others" in Instruction Manual for more details.



Mouser Electronics

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Cosel:

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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Подбор аналогов;
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- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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