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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
- ⑥ Optional *7
- C : with Coating
- J : Connector interface
- T : Vertical terminal block
- N1 : with DIN rail

See 5.1 in Instruction Manual.

SPECIFICATIONS

	MODEL	PLA15F-5	PLA15F-12	PLA15F-15	PLA15F-24
INPUT	VOLTAGE[V]	AC85 - 264 1 φ (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%)
		ACIN 115V	73.5typ (Io=100%)	77.0typ (Io=100%)	78.5typ (Io=100%)
		ACIN 230V	75.5typ (Io=100%)	78.5typ (Io=100%)	79.5typ (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
	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
		-10 to 0°C	140max	160max	160max
		Io=0 to 35%	160max	240max	280max
	RIPPLE NOISE[mVp-p] *1	0 to +50°C	120max	150max	150max
		-10 to 0°C	160max	180max	180max
		Io=0 to 35%	240max	300max	320max
	TEMPERATURE REGULATION[mV]	0 to +50°C	50max	120max	150max
		-10 to +50°C	60max	150max	290max
PROTECTION CIRCUIT AND OTHERS	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
	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)			
ISOLATION	REMOTE SENSING	Not provided			
	REMOTE ON/OFF	Not provided			
	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)			
ENVIRONMENT	OUTPUT-FG	AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At room temperature)			
	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			
SAFETY AND NOISE REGULATIONS	IMPACT	196.1m/s ² (20G), 11ms, once each X, Y and Z axes			
	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			

SPECIFICATIONS

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

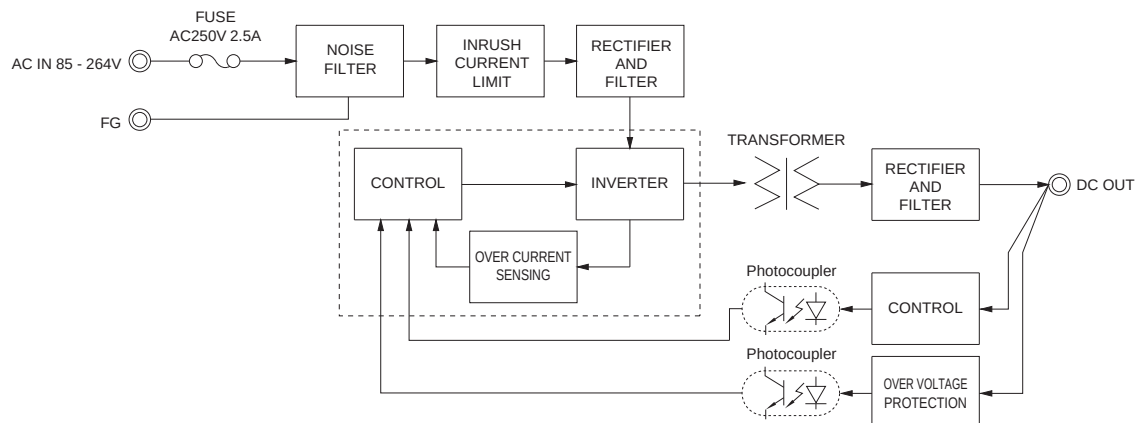
- *1 This is the result of measurement of the testing board with capacitors of 22 μ F and 0.1 μ F placed at 150 mm from the output terminals by a 20 MHz oscilloscope or a ripple-noise meter equivalent to Keisoku-Giken RM103.
See 1.6 of Instruction Manual for more details.
When the load factor is 0 - 35%, the switching power loss is reduced by burst operation, which will cause ripple and ripple noise to go beyond the specifications.
- *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.
- *4 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.

- *5 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.
- *8 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.

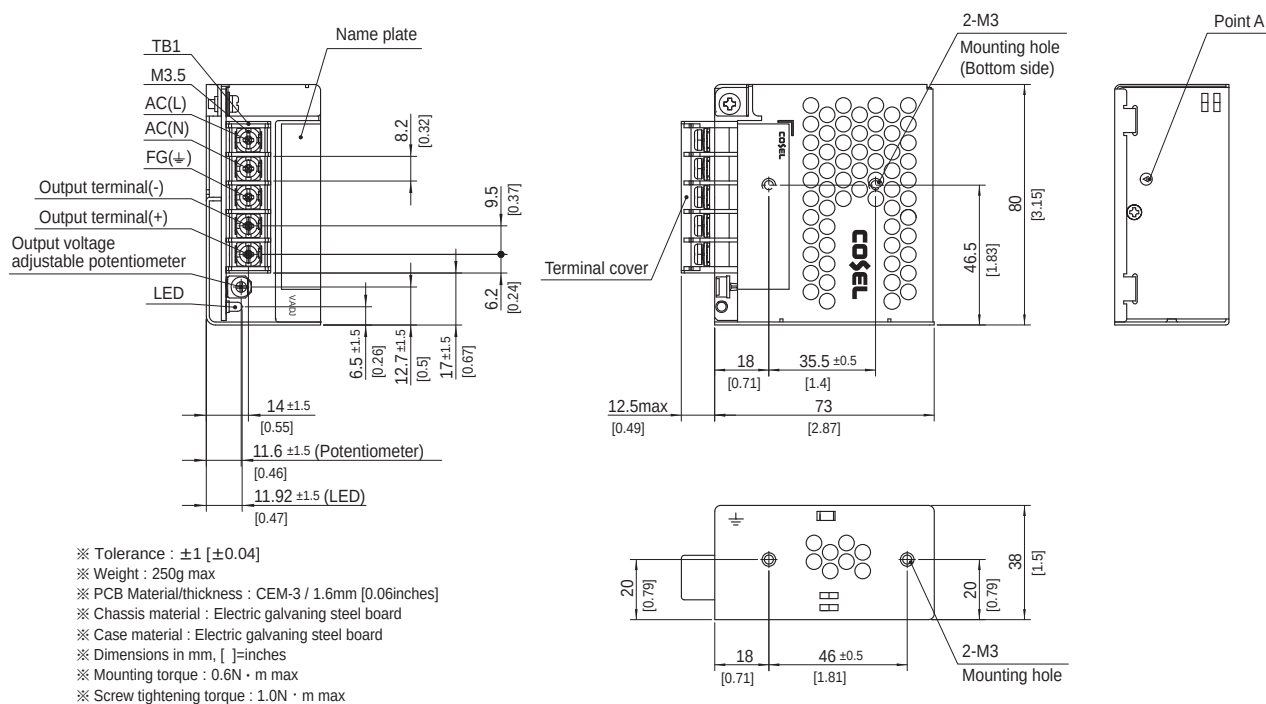
Features

- 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



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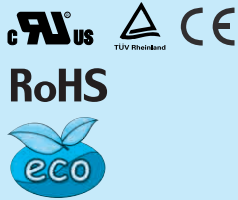
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Recommended EMI/EMC Filter
NAC-04-472High voltage pulse noise type : NAP series
Low leakage current type : NAM series*The EMI/EMC Filter is recommended
to connect with several devices.

- 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.

SPECIFICATIONS

	MODEL	PLA30F-5	PLA30F-12	PLA30F-15	PLA30F-24
INPUT	VOLTAGE[V]	AC85 - 264 1 ϕ (Output derating is required at AC85V - 115V. See 1.1 and 3.2 in Instruction Manual) *3			
	CURRENT[A]	ACIN 100V	0.7typ (Io=90%)		
		ACIN 115V	0.7typ (Io=100%)		
		ACIN 230V	0.4typ (Io=100%)		
	FREQUENCY[Hz]	50 / 60 (47 - 63)			
	EFFICIENCY[%]	ACIN 100V	73.0typ (Io=90%)	80.0typ (Io=90%)	81.0typ (Io=90%)
		ACIN 115V	74.0typ (Io=100%)	80.5typ (Io=100%)	81.5typ (Io=100%)
		ACIN 230V	77.0typ (Io=100%)	81.0typ (Io=100%)	82.0typ (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]	0.65max (ACIN 115V / 240V, 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)			
OUTPUT	VOLTAGE[V]	5	12	15	24
	CURRENT[A]	6	2.5	2	1.3
	WATTAGE[W]	ACIN 85-115V	Output derating is required at ACIN 115V or less (refer to instruction manual 3.2)		
		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
	RIPPLE[mVp-p] *1	0 to +50°C	80max	120max	120max
		-10 to 0°C	140max	160max	160max
	RIPPLE NOISE[mVp-p] *1	0 to +50°C	120max	150max	150max
		-10 to 0°C	160max	180max	180max
	TEMPERATURE REGULATION[mV]	0 to +50°C	50max	120max	240max
		-10 to +50°C	60max	150max	290max
	DRIFT[mV] *2	20max	48max	60max	96max
	START-UP TIME[ms]	150typ (ACIN 115V, Io=100%)			
PROTECTION CIRCUIT AND OTHERS	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
	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)			
ISOLATION	REMOTE SENSING	Not provided			
	REMOTE ON/OFF	Not provided			
	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)			
ENVIRONMENT	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%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			
SAFETY AND NOISE REGULATIONS	IMPACT	196.1m/s ² (20G), 11ms, once each X, Y and Z axes			
	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			

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	WARRANTY	*6 5 years (subject to the operating conditions)

*1 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.

*4 Consult us about dynamic load and input response.

*5 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.

*8 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.

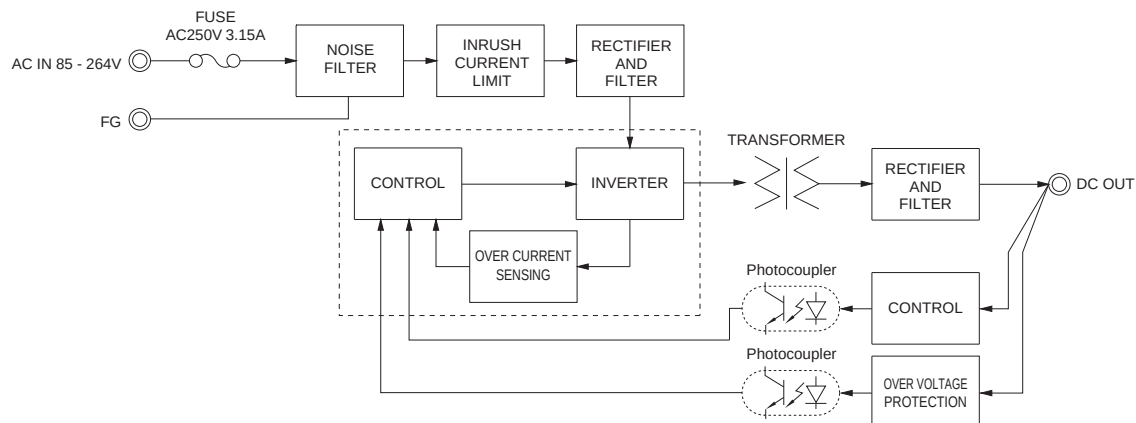
* Parallel operation is not possible with this mode.

* Sound noise may be heard from the power supply when used for pulse load.

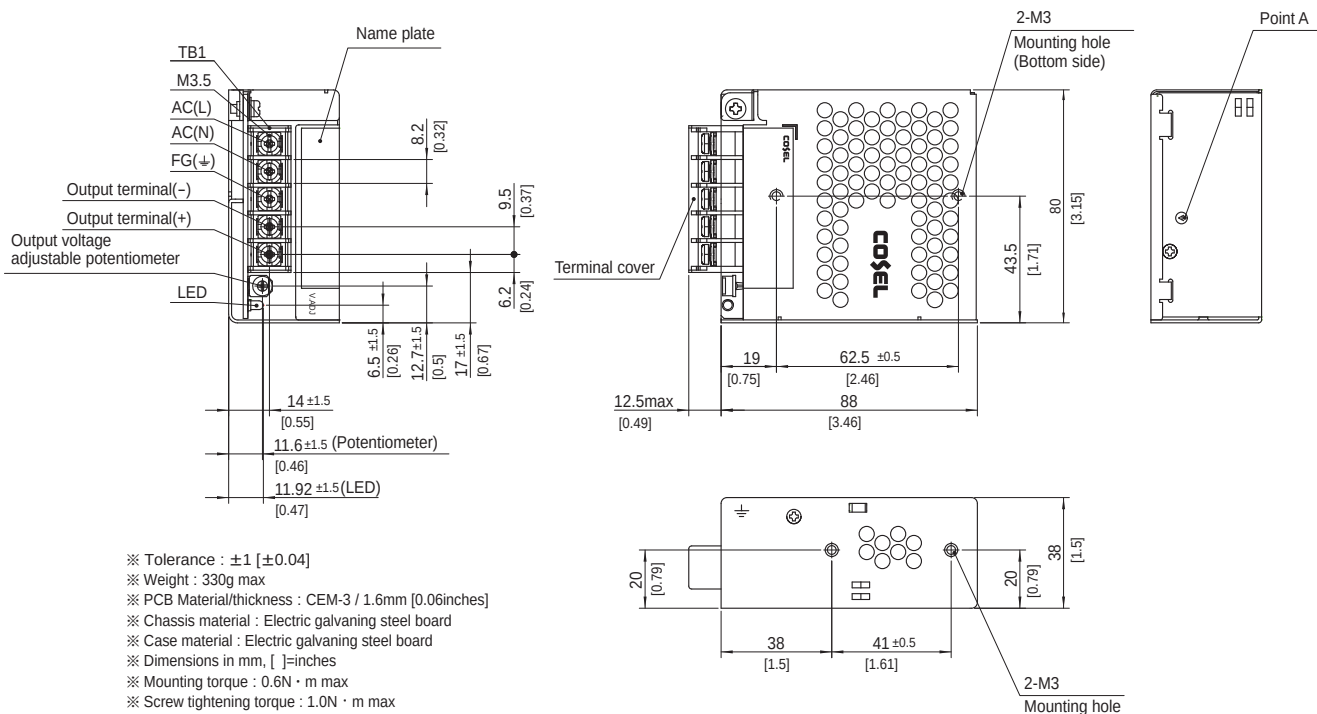
Features

- 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



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Recommended EMI/EMC Filter
NAC-04-472High 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.

SPECIFICATIONS

MODEL		PLA50F-5	PLA50F-12	PLA50F-15	PLA50F-24
INPUT	VOLTAGE[V]	AC85 - 264 1 φ (Output derating is required at AC85V - 115V. See 1.1 and 3.2 in Instruction Manual) *3			
	CURRENT[A]	ACIN 100V	0.6typ (Io=90%)	0.7typ (Io=90%)	
		ACIN 115V	0.6typ (Io=100%)	0.7typ (Io=100%)	
		ACIN 230V	0.3typ (Io=100%)	0.4typ (Io=100%)	
	FREQUENCY[Hz]	50 / 60 (47 - 63)			
	EFFICIENCY[%]	ACIN 100V	74.5typ (Io=90%)	80.0typ (Io=90%)	81.5typ (Io=90%)
		ACIN 115V	75.0typ (Io=100%)	80.5typ (Io=100%)	82.0typ (Io=100%)
		ACIN 230V	76.5typ (Io=100%)	82.0typ (Io=100%)	84.0typ (Io=100%)
	POWER FACTOR	ACIN 100V	0.97typ (Io=90%)	0.98typ (Io=90%)	
		ACIN 115V	0.97typ (Io=100%)	0.98typ (Io=100%)	
		ACIN 230V	0.85typ (Io=100%)	0.87typ (Io=100%)	
OUTPUT	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]	0.75max (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 at ACIN 115V or less (refer to instruction manual 3.2)		
		ACIN 115V-264V	40.0	51.6	52.5
	LINE REGULATION[mV]	*4	20max	48max	60max
	LOAD REGULATION[mV]	*4	40max	100max	120max
PROTECTION CIRCUIT AND OTHERS	RIPPLE[mVp-p]	*1	0 to +45°C	80max	120max
			-10 to 0°C	140max	160max
	RIPPLE NOISE[mVp-p]	*1	0 to +45°C	120max	150max
			-10 to 0°C	160max	180max
	TEMPERATURE REGULATION[mV]		0 to +45°C	50max	120max
			-10 to +45°C	60max	150max
	DRIFT[mV]	*2	20max	48max	60max
	START-UP TIME[ms]	350typ (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
ISOLATION	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 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			
ENVIRONMENT	REMOTE ON/OFF	Not provided			
	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)			
SAFETY AND NOISE REGULATIONS	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			
AGENCY APPROVALS	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			

SPECIFICATIONS

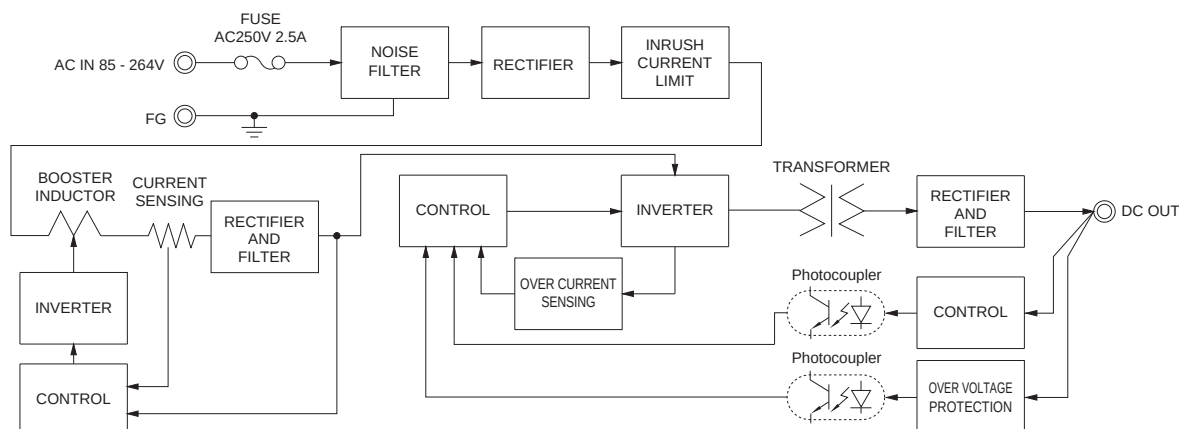
OTHERS	CASE SIZE/WEIGHT	38 X 80 X 99mm [1.50 X 3.15 X 3.90 inches] (Excluding terminal block and screw) (W X H X D) / 400g max
	COOLING METHOD	Convection
WARRANTY	WARRANTY	*6 5 years (subject to the operating conditions)

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|---|---|
| <p>*1 This is the result of measurement of the testing board with capacitors of 22 μF and 0.1 μF placed at 150 mm from the output terminals by a 20 MHz oscilloscope or a ripple-noise meter equivalent to Keisoku-Giken RM103.</p> <p>*2 See 1.6 of Instruction Manual for more details.</p> <p>*3 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.</p> <p>*4 Output power derating is required. As for DC input, consult us for advice.</p> <p>*5 Consult us about dynamic load and input response.</p> <p>*6 Output power derating is required. See 3.2 in Instruction Manual.</p> <p>*7 See 3.3 in Instruction Manual for more details.</p> | <p>*8 Consult us about safety agency approvals for the models with optional functions.</p> <p>*9 Consult us about other classes.</p> <p>*10 Do not use the power supply in overcurrent conditions or in unspecified input voltage ranges. Otherwise the internal components may be damaged.</p> <p>*11 Parallel operation is not possible with this mode.</p> <p>*12 Sound noise may be heard from the power supply when used for pulse load.</p> |
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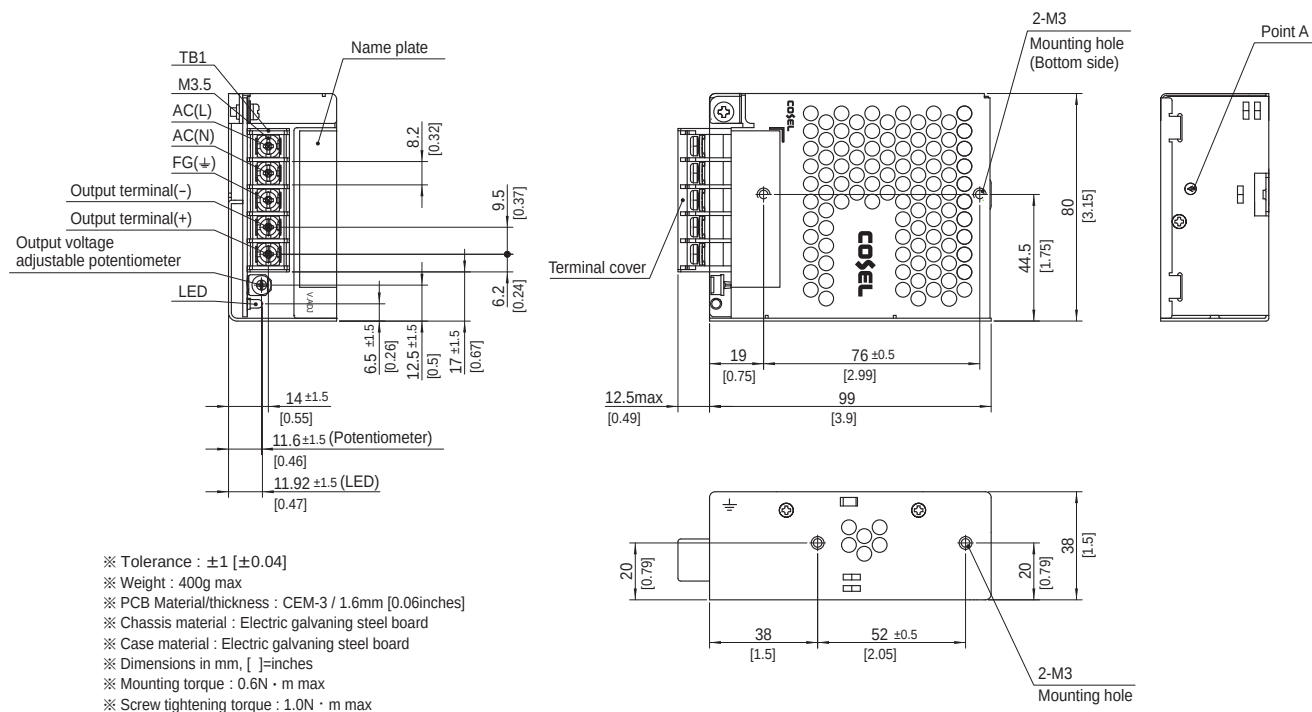
Features

- 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



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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
⑥ 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.

	MODEL		PLA100F-12	PLA100F-15	PLA100F-24	PLA100F-36	PLA100F-48
INPUT	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 *3)				
	CURRENT[A]	ACIN 100V	1.2typ (Io=90%)				
		ACIN 115V	1.1typ (Io=100%)				
		ACIN 230V	0.6typ (Io=100%)				
	FREQUENCY[Hz]		50 / 60 (47 - 63) (DC input and 440Hz *3)				
	EFFICIENCY[%]	ACIN 100V	82typ (Io=90%)	83typ (Io=90%)	85typ (Io=90%)	86typ (Io=90%)	86typ (Io=90%)
		ACIN 115V	82typ (Io=100%)	83typ (Io=100%)	85typ (Io=100%)	86typ (Io=100%)	86typ (Io=100%)
		ACIN 230V	85typ (Io=100%)	86typ (Io=100%)	88typ (Io=100%)	89typ (Io=100%)	89typ (Io=100%)
	POWER FACTOR	ACIN 100V	0.98typ (Io=90%)				
		ACIN 115V	0.98typ (Io=100%)				
ACIN 230V		0.95typ (Io=100%) * Power factor correction is stopped at AC250V or more.					
INRUSH CURRENT[A]	ACIN 100V	16typ (Io=90%) Ta=25℃ at cold start					
	ACIN 115V	16typ (Io=100%) Ta=25℃ at cold start					
	ACIN 230V	32typ (Io=100%) Ta=25℃ at cold start					
LEAKAGE CURRENT[mA]		0.75max (ACIN 115V / 240V, 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)					
OUTPUT	VOLTAGE[V]		12	15	24	36	48
	CURRENT[A]	ACIN 85-115V	Output derating is required at ACIN 115V or less (refer to instruction manual 3.2)				
		ACIN 115V-264V	8.4	6.7	4.3	2.8	2.1
	WATTAGE[W]	ACIN 85-115V	Output derating is required at ACIN 115V or less (refer to instruction manual 3.2)				
		ACIN 115V-264V	100.8	100.5	103.2	100.8	100.8
	LINE REGULATION[mV]	*4	48max	60max	96max	144max	192max
	LOAD REGULATION [mV]	Io=30 to 100%	100max	120max	150max	150max	300max
		Io=0 to 30%	Burst operation (Please contact us about detail)				
	RIPPLE[mVp-p]	0 to +40℃	120max	120max	120max	150max	150max
		-10 to 0℃	160max	160max	160max	200max	400max
		Io: load factor	500max	500max	500max	500max	500max
	RIPPLE NOISE[mVp-p]	0 to +40℃	150max	150max	150max	200max	200max
		-10 to 0℃	180max	180max	180max	240max	500max
		Io: load factor	600max	600max	600max	600max	600max
	TEMPERATURE REGULATION[mV]	0 to +40℃	120max	150max	240max	360max	480max
-10 to +40℃		180max	180max	290max	440max	600max	
DRIFT[mV]	*2	48max	60max	96max	144max	192max	
START-UP TIME[ms]		500typ (ACIN 115V, Io=100%) Ta=25℃					
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]		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		Works over 105% of rating and recovers automatically				
	OVERVOLTAGE PROTECTION[V]		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
	OPERATING INDICATION		LED (Green)				
	REMOTE SENSING		Not provided				
	REMOTE ON/OFF		Optional (Required external power source. Option -R)				
ISOLATION	INPUT-OUTPUT • RC		*9 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 • RC-FG		*9 AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature)				
	OUTPUT-RC		*9 AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature)				
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE		*5 -20 to +70℃ (Output derating is required), 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max				
	STORAGE TEMP., HUMID. AND ALTITUDE		-20 to +75℃, 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				

SPECIFICATIONS

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

*1 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 - 30%, the switching power loss is reduced by burst operation, which will cause ripple and ripple noise to go beyond the specifications.

*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.
*4 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.
*5 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.

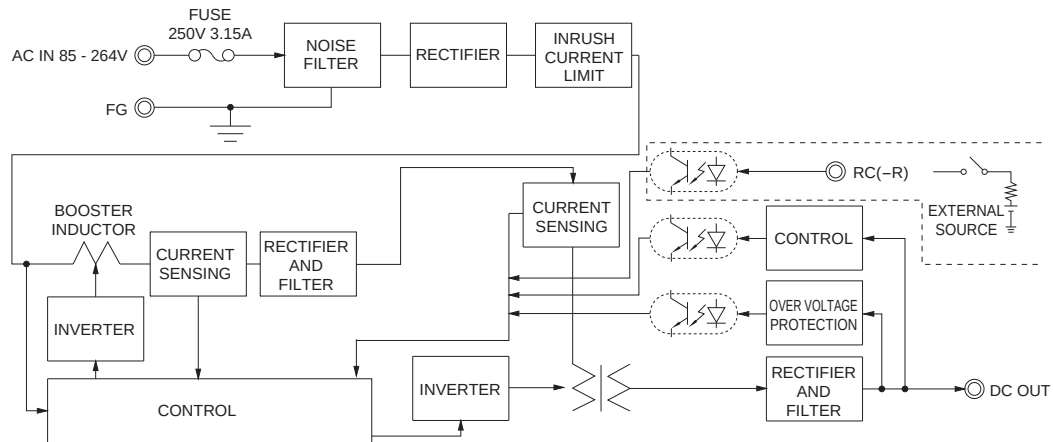
*8 Consult us about other classes.

*9 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.
* Sound noise may be heard from the power supply when used for pulse load.

Features

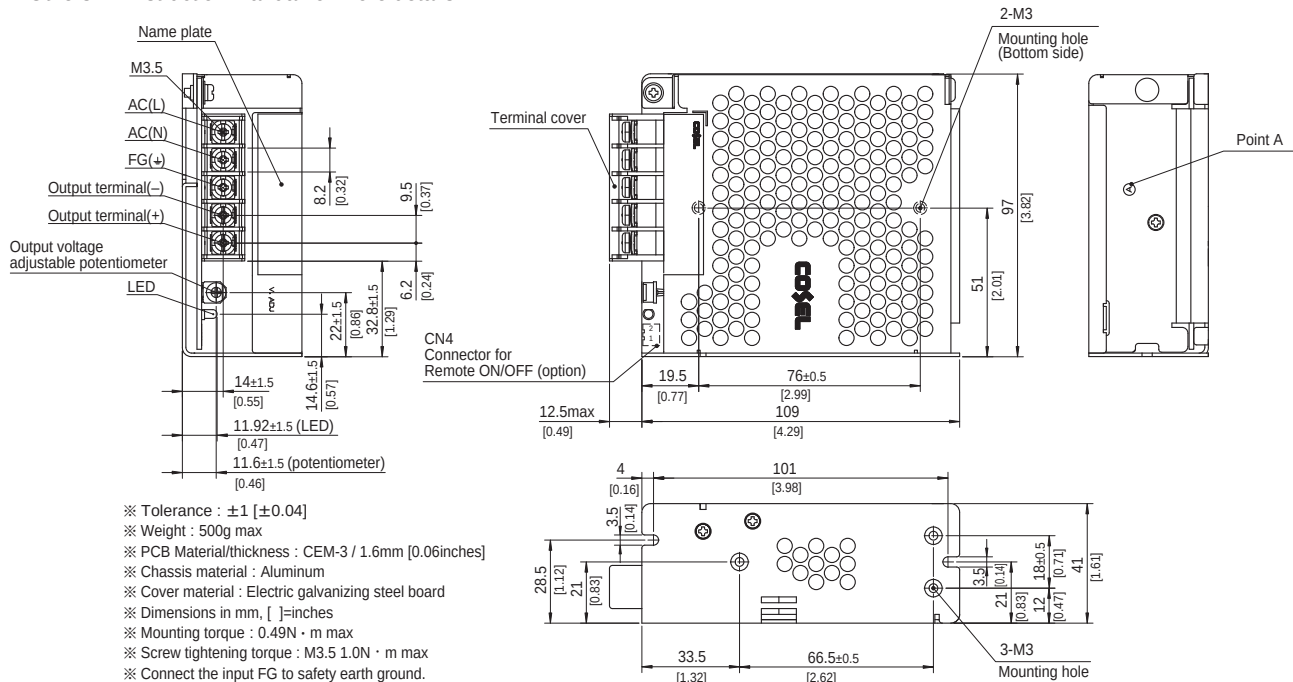
- Compact design (Depth: 109mm 4.29inches)
- High efficiency (88%typ PLA100F-24, AC230Vin, 100% load)
- Low power consumption (1.5W typ AC240Vin, no load at standard model)
- Lower power consumption (0.5Wmax AC240Vin, no load at option -L: see instruction manual)
- UL508 approved (Except option -J),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

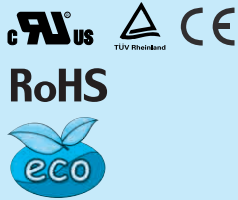
Block diagram



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.





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
- 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 "PBA150F-5-N" about 5V output with case cover.

	MODEL		PLA150F-12	PLA150F-15	PLA150F-24	PLA150F-36	PLA150F-48	
INPUT	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 *3)					
	CURRENT[A]	ACIN 100V	1.7typ (Io=90%)					
		ACIN 115V	1.6typ (Io=100%)					
		ACIN 230V	0.8typ (Io=100%)					
	FREQUENCY[Hz]		50 / 60 (47 - 63) (DC input and 440Hz *3)					
	EFFICIENCY[%]	ACIN 100V	84typ (Io=90%)	84typ (Io=90%)	87typ (Io=90%)	87typ (Io=90%)	87typ (Io=90%)	
		ACIN 115V	84typ (Io=100%)	84typ (Io=100%)	87typ (Io=100%)	87typ (Io=100%)	87typ (Io=100%)	
		ACIN 230V	87typ (Io=100%)	87typ (Io=100%)	90typ (Io=100%)	90typ (Io=100%)	90typ (Io=100%)	
	POWER FACTOR	ACIN 100V	0.98typ (Io=90%)					
		ACIN 115V	0.98typ (Io=100%)					
ACIN 230V		0.95typ (Io=100%) * Power factor correction is stopped at AC250V or more.						
INRUSH CURRENT[A]	ACIN 100V	16typ (Io=90%) Ta=25℃ at cold start						
	ACIN 115V	16typ (Io=100%) Ta=25℃ at cold start						
	ACIN 230V	32typ (Io=100%) Ta=25℃ at cold start						
LEAKAGE CURRENT[ma]		0.75max (ACIN 115V / 240V, 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)						
OUTPUT	VOLTAGE[V]		12	15	24	36	48	
	CURRENT[A]	ACIN 85-115V	Output derating is required at ACIN 115V or less (refer to instruction manual 3.2)					
		ACIN 115V-264V	12.5	10	6.4	4.2	3.2	
	WATTAGE[W]	ACIN 85-115V	Output derating is required at ACIN 115V or less (refer to instruction manual 3.2)					
		ACIN 115V-264V	150.0	150.0	153.6	151.2	153.6	
	LINE REGULATION[mV]	*4	48max	60max	96max	144max	192max	
	LOAD REGULATION [mV]	Io=30 to 100%	100max	120max	150max	150max	300max	
		Io=0 to 30%	Burst operation (Please contact us about detail)					
	RIPPLE[mVp-p]	0 to +40℃	120max	120max	120max	150max	150max	
		-10 to 0℃	160max	160max	160max	200max	400max	
	Io: load factor	Io=0 to 30%	500max	500max	500max	500max	500max	
		0 to +40℃	150max	150max	150max	200max	200max	
	RIPPLE NOISE[mVp-p]	0 to +40℃	150max	150max	150max	200max	200max	
		-10 to 0℃	180max	180max	180max	240max	500max	
	Io: load factor	Io=0 to 30%	600max	600max	600max	600max	600max	
		0 to +40℃	120max	150max	240max	360max	480max	
	TEMPERATURE REGULATION[mV]	0 to +40℃	120max	150max	240max	360max	480max	
-10 to +40℃		180max	180max	290max	440max	600max		
DRIFT[mV]		*2	48max	60max	96max	144max	192max	
START-UP TIME[ms]		500typ (ACIN 115V, Io=100%) Ta=25℃						
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]		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		Works over 105% of rating and recovers automatically					
	OVERVOLTAGE PROTECTION[V]		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
	OPERATING INDICATION		LED (Green)					
	REMOTE SENSING		Not provided					
	REMOTE ON/OFF		Optional (Required external power source. Option -R)					
ISOLATION	INPUT-OUTPUT • C		*9	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 • RC-FG		*9	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature)				
	OUTPUT-RC		*9	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature)				
ENVIRONMENT	OPERATING TEMP., HUMID.AND ALTITUDE		*5	-20 to +70℃ (Output derating is required), 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max				
	STORAGE TEMP., HUMID.AND ALTITUDE			-20 to +75℃, 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 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				

SPECIFICATIONS

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

*1 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 - 30%, the switching power loss is reduced by burst operation, which will cause ripple and ripple noise to go beyond the specifications.

*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.

*4 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.

*5 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.

*8 Consult us about other classes.

*9 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.

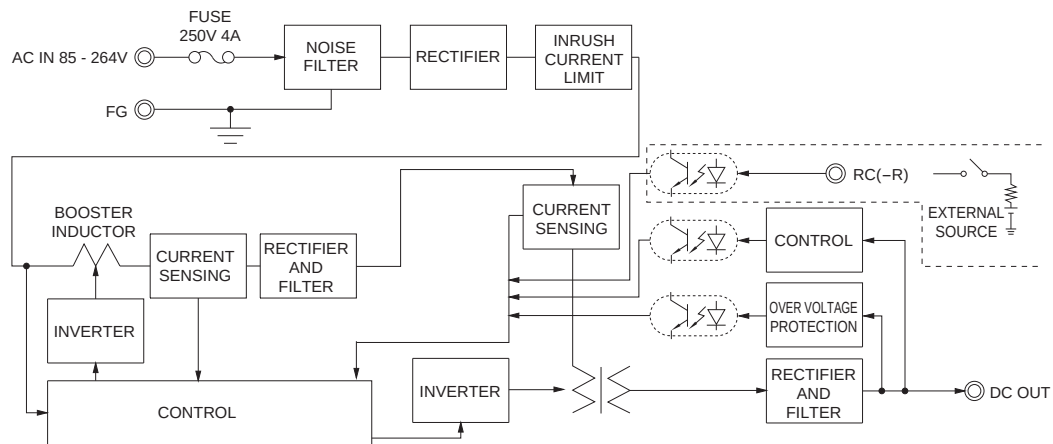
* Parallel operation is not possible with this mode.

* Sound noise may be heard from the power supply when used for pulse load.

Features

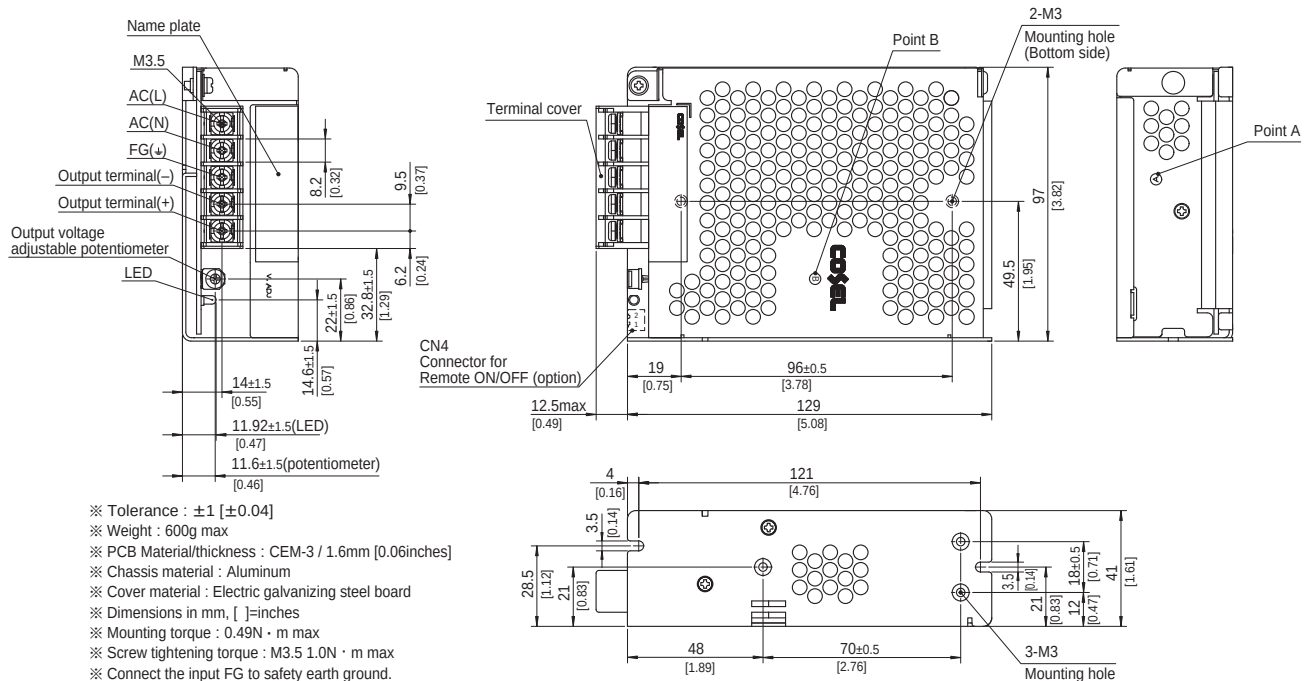
- Compact design (Depth: 129mm 5.08inches)
- High efficiency (90%typ PLA150F-24, AC230Vin, 100% load)
- Low power consumption (1.5W typ AC240Vin, no load at standard model)
- Lower power consumption (0.5Wmax AC240Vin, no load at option -L: see instruction manual)
- UL508 approved (Except option -J),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

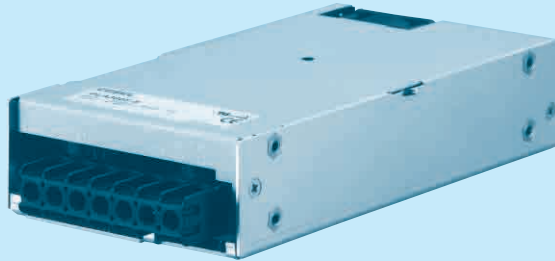
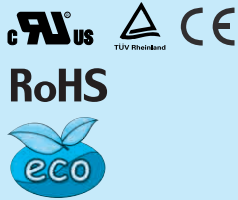
Block diagram



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.





Recommended EMI/EMC Filter NAC-06-472



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)
- 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
INPUT	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)					
	CURRENT[A]	ACIN 100V	3.1typ (Io=90%)	3.4typ (Io=90%)				
		ACIN 115V	3.0typ (Io=100%)	3.3typ (Io=100%)				
		ACIN 230V	1.5typ (Io=100%)	1.7typ (Io=100%)				
	FREQUENCY[Hz]		50 / 60 (47 - 63) (DC input and 440Hz *3)					
	EFFICIENCY[%]	ACIN 100V	73typ (Io=90%)	78typ (Io=90%)	80typ (Io=90%)	84typ (Io=90%)	84typ (Io=90%)	84typ (Io=90%)
		ACIN 115V	74typ (Io=100%)	78typ (Io=100%)	80typ (Io=100%)	84typ (Io=100%)	84typ (Io=100%)	84typ (Io=100%)
		ACIN 230V	77typ (Io=100%)	81typ (Io=100%)	83typ (Io=100%)	87typ (Io=100%)	87typ (Io=100%)	87typ (Io=100%)
	POWER FACTOR	ACIN 100V	0.98typ (Io=90%)					
		ACIN 115V	0.98typ (Io=100%)					
ACIN 230V		0.95typ (Io=100%)						
INRUSH CURRENT[A]	ACIN 100V	20typ (Io=90%) Ta=25℃ at cold start						
	ACIN 115V	20typ (Io=100%) Ta=25℃ at cold start						
	ACIN 230V	40typ (Io=100%) Ta=25℃ at cold start						
LEAKAGE CURRENT[ma]		0.75max (ACIN 115V / 240V, 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)						
OUTPUT	VOLTAGE[V]		5	12	15	24	36	48
	CURRENT[A]	ACIN 85-115V	Output derating is required at ACIN 115V or less (refer to instruction manual 3.2)					
		ACIN 115V-264V	50	25	20	12.5	8.4	6.3
	WATTAGE[W]	ACIN 85-115V	Output derating is required at ACIN 115V or less (refer to instruction manual 3.2)					
		ACIN 115V-264V	250	300	300	300	302.4	302.4
	LINE REGULATION[mV] *4		20max	48max	60max	96max	144max	192max
	LOAD REGULATION[mV] *4		40max	100max	120max	150max	150max	300max
	RIPPLE[mVp-p] *1	0 to +50℃	80max	120max	120max	120max	150max	150max
		-10 to 0℃	140max	160max	160max	160max	160max	400max
	RIPPLE NOISE[mVp-p] *1	0 to +50℃	120max	150max	150max	150max	200max	200max
		-10 to 0℃	160max	180max	180max	180max	240max	500max
	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	120max	150max	240max	360max	480max
		-10 to +50℃	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]		4.50 to 5.50	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		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	41.40 to 50.40	55.20 to 67.20
	OPERATING INDICATION		LED (Green)					
	REMOTE SENSING		Not provided					
	REMOTE ON/OFF		Optional (Required external power source. Option -R)					
ISOLATION	INPUT-OUTPUT • RC *10		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 • RC-FG *10		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature)					
	OUTPUT-RC *10		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature)					
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE *5		-20 to +70℃ (Output derating is required), 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max					
	STORAGE TEMP.,HUMID.AND ALTITUDE		-20 to +75℃ , 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 NOISE REGULATIONS	AGENCY APPROVALS		UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN					
	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B					
	HARMONIC ATTENUATOR *9		Complies with IEC61000-3-2 class A					

SPECIFICATIONS

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

*1 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 $^{\circ}$ C.

*3 Output power derating is required. Consult us if the power supply needs to be used for DC input, 440Hz input or AC265-277V input.

*4 Consult us about dynamic load and input response.

*5 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.

*8 The fan speed slows down at no load.

*9 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 damaged.

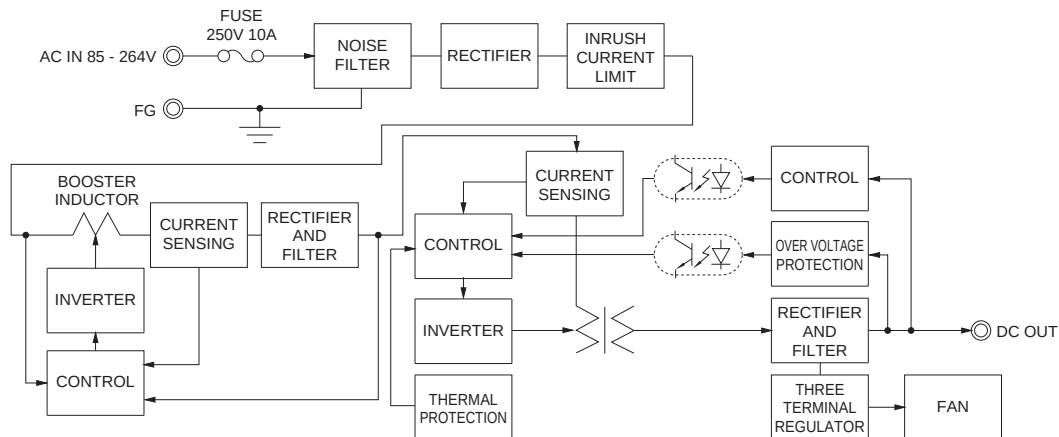
* Parallel operation is not possible with this mode.

* Sound noise may be heard from the power supply when used for pulse load.

Features

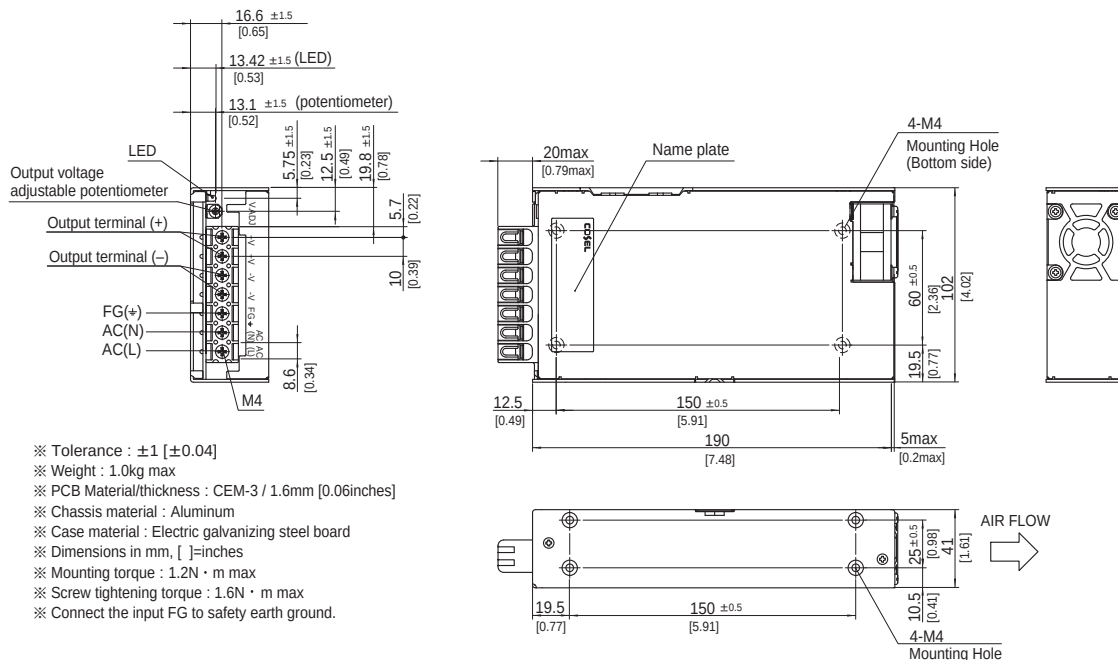
- Cost-effective
- Longer life (see Instruction Manual)
- Low profile (meets 1U height = 41 mm or 1.61 inches)
- Wide operating temperature range (-20 $^{\circ}$ C to +70 $^{\circ}$ C see instruction manual)
- Screw hold type terminal block
- Slow fan speed at no load
- Many optional functions
- Complies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

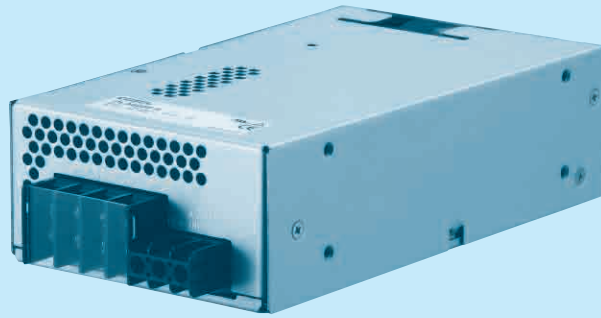
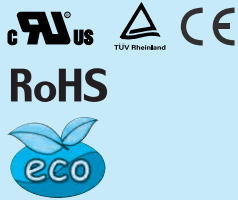
Block diagram



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.





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
- ⑧ 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
- 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						
INPUT	VOLTAGE[V]		AC85 - 264 1 ϕ (Output derating is required at AC85V - 115V. See 1.1 and 3.2 in Instruction Manual) *4 (DC input and AC265 - 277V input *4)											
	CURRENT[A]	ACIN 100V	6.2typ (Io=90%)		6.7typ (Io=90%)									
		ACIN 115V	6.0typ (Io=100%)		6.5typ (Io=100%)									
		ACIN 230V	3.0typ (Io=100%)		3.2typ (Io=100%)									
	FREQUENCY[Hz]		50 / 60 (47 - 63) (DC input and 440Hz *4)											
	EFFICIENCY[%]	ACIN 100V	74typ (Io=90%)		81typ (Io=90%)		81typ (Io=90%)		84typ (Io=90%)		85typ (Io=90%)		85typ (Io=90%)	
		ACIN 115V	75typ (Io=100%)		81typ (Io=100%)		81typ (Io=100%)		84typ (Io=100%)		85typ (Io=100%)		85typ (Io=100%)	
		ACIN 230V	77typ (Io=100%)		84typ (Io=100%)		84typ (Io=100%)		88typ (Io=100%)		88typ (Io=100%)		88typ (Io=100%)	
	POWER FACTOR	ACIN 100V	0.98typ (Io=90%)											
		ACIN 115V	0.98typ (Io=100%)											
ACIN 230V		0.95typ (Io=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 (Io=100%) (Primary inrush current /Secondary inrush current) (More than 3sec to re-start)												
	ACIN 230V	40/40typ (Io=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)												
OUTPUT	VOLTAGE[V]		5	12	15	24	36	48						
	CURRENT[A]	ACIN 85-115V	Output derating is required at ACIN 115V or less (refer to instruction manual 3.2)											
		ACIN 115V-264V	100	50	40	25	16.7	12.5						
	WATTAGE[W]	ACIN 85-115V	Output derating is required at ACIN 115V or less (refer to instruction manual 3.2)											
		ACIN 115V-264V	500	600	600	600	601.2	600						
	LINE REGULATION[mV] *8		20max	48max	60max	96max	144max	192max						
	LOAD REGULATION[mV] *8		40max	100max	120max	150max	150max	300max						
	RIPPLE[mVp-p] *1	0 to +50°C	80max	120max	120max	120max	150max	150max						
		-20 to 0°C	140max	160max	160max	160max	160max	400max						
	RIPPLE NOISE[mVp-p] *1	0 to +50°C	120max	150max	150max	150max	200max	200max						
		-20 to 0°C	160max	180max	180max	180max	240max	500max						
	TEMPERATURE REGULATION[mV]	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%)												
PROTECTION CIRCUIT AND OTHERS	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	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						
	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	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		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 • RC-FG *3		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature)												
OUTPUT-RC *3		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature)												
ENVIRONMENT	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											
	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 NOISE REGULATIONS	AGENCY APPROVALS		UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN											
	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B											
	HARMONIC ATTENUATOR *10		Complies with IEC61000-3-2 class A											

SPECIFICATIONS

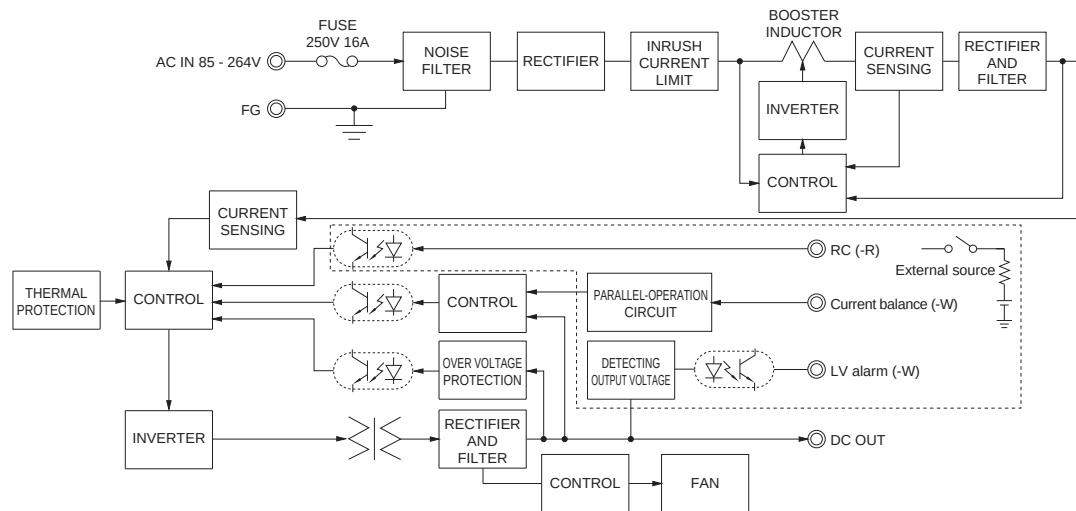
OTHERS	CASE SIZE/WEIGHT	120×61×215mm [4.72×2.40×8.46 inches] (Excluding terminal block and screw) (W×H×D) / 2.0kg max
	COOLING METHOD	*9 Forced cooling (internal fan)
WARRANTY	WARRANTY	*6 5 years (subject to the operating conditions)

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|----|--|----|---|-----|---|
| *1 | 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. | *3 | The RC terminal is added to option –R models. The RC terminal is isolated from input, output, and FG. | *8 | Consult us about dynamic load and input response. |
| *2 | Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C. | *4 | Output power derating is required. Consult us if the power supply needs to be used for DC input, 440Hz input or AC265-277V input. | *9 | The fan speed slows down at no load. |
| | | *5 | Output power derating is required. See 3.2 in Instruction Manual. | *10 | Consult us about other classes. |
| | | *6 | See 3.3 in Instruction Manual for more details. | * | Do not use the power supply in overcurrent conditions or in unspecified input voltage ranges. Otherwise the internal components may be damaged. |
| | | *7 | Consult us about safety agency approvals for the models with optional functions. | * | Parallel operation is allowed for PL4600F-models with the –W option only. |
| | | | | * | Sound noise may be heard from the power supply when used for pulse load. |

Features

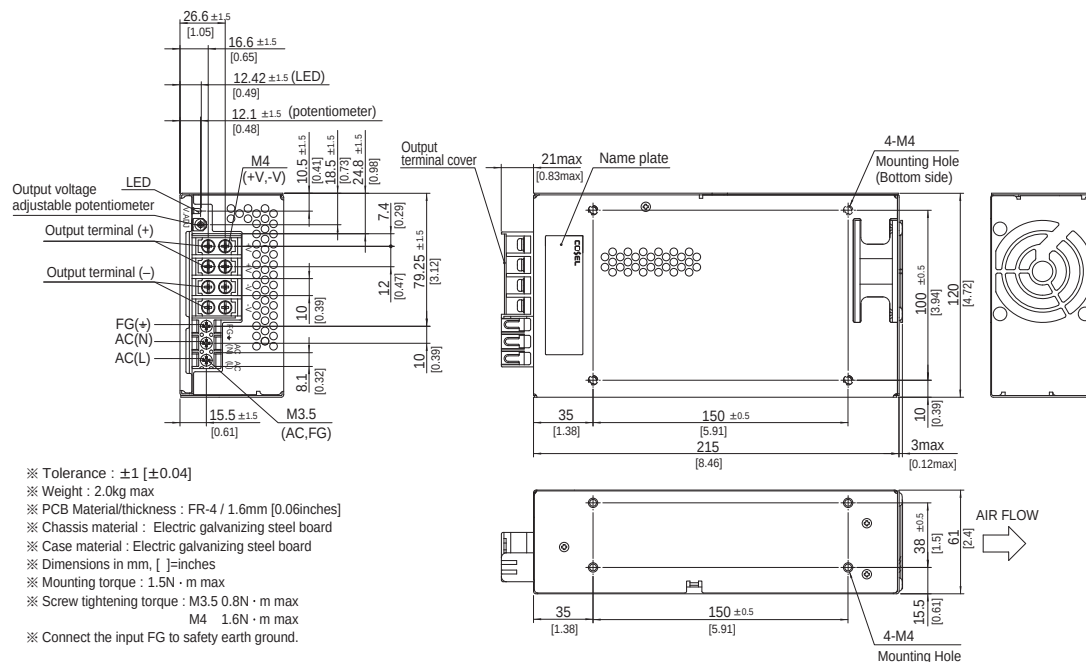
- Cost-effective
- Longer life (see Instruction Manual)
- Low profile (meets 2U height = 61 mm or 2.40 inches)
- Wide operating temperature range (-20°C to +70°C see instruction manual)
- Screw hold type terminal block
- Slow fan speed at no load
- Many optional functions
- Complies with SEMI F-47 (-U 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.



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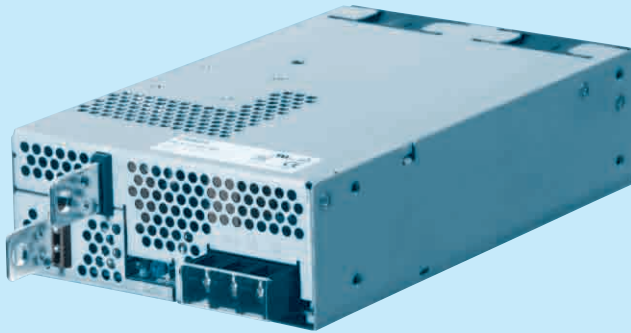
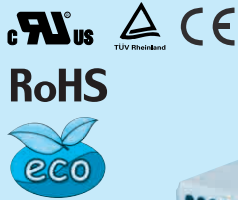
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Recommended EMI/EMC Filter
NAC-20-472High voltage pulse noise type : NAP series
Low leakage current type : NAM series* The EMI/EMC Filter is recommended
to connect with several devices.

- ① Series name
② Single output
③ Output wattage
④ Universal input
⑤ Output voltage
⑧ Optional *7
C : with Coating
G : Low leakage current
V : External potentiometer for
output voltage adjustment
W: Parallel operation,
LV alarm Remote sensing
R : Remote on/off
(Required external power source
or Option -Z□)
Z□ : AUX Output
Z1 : 5V
Z2 : 12V
Z3 : 24V

See 5.1 in Instruction Manual.

SPECIFICATIONS

	MODEL		PLA1000F-5	PLA1000F-12	PLA1000F-15	PLA1000F-24	PLA1000F-36	PLA1000F-48
INPUT	VOLTAGE[V]		AC85 - 264 1 φ (Output derating is required at AC85V - 115V. See 1.1 and 3.2 in Instruction Manual) *4 (DC input and AC265 - 277V input *4)					
	CURRENT[A]	ACIN 100V	8.5typ (Io=90%)	12.5typ (Io=90%)				
		ACIN 115V	8.0typ (Io=100%)	11.0typ (Io=100%)				
		ACIN 230V	4.0typ (Io=100%)	5.5typ (Io=100%)				
	FREQUENCY[Hz]		50 / 60 (47 - 63) (DC input and 440Hz *4)					
	EFFICIENCY[%]	ACIN 100V	78typ (Io=90%)	82typ (Io=90%)	82typ (Io=90%)	85typ (Io=90%)	85typ (Io=90%)	84typ (Io=90%)
		ACIN 115V	78typ (Io=100%)	82typ (Io=100%)	82typ (Io=100%)	85typ (Io=100%)	85typ (Io=100%)	84typ (Io=100%)
		ACIN 230V	81typ (Io=100%)	85typ (Io=100%)	85typ (Io=100%)	88typ (Io=100%)	88typ (Io=100%)	87typ (Io=100%)
	POWER FACTOR	ACIN 100V	0.98typ (Io=90%)					
		ACIN 115V	0.98typ (Io=100%)					
ACIN 230V		0.95typ (Io=100%)						
INRUSH CURRENT[A]	ACIN 100V	15/30typ (Io=90%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start)						
	ACIN 115V	15/30typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start)						
	ACIN 230V	30/30typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start)						
LEAKAGE CURRENT[ma]		1.5max (ACIN 115V / 240V, 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)						
OUTPUT	VOLTAGE[V]		5	12	15	24	36	48
	CURRENT[A]	ACIN 85-115V	Output derating is required at ACIN 115V or less (refer to instruction manual 3.2)					
		ACIN 115V-264V	140	84	67	42	28	21
	WATTAGE[W]	ACIN 85-115V	Output derating is required at ACIN 115V or less (refer to instruction manual 3.2)					
		ACIN 115V-264V	700	1008	1005	1008	1008	1008
	LINE REGULATION[mV] *8		20max	48max	60max	96max	144max	192max
	LOAD REGULATION[mV] *8		40max	100max	120max	150max	150max	300max
	RIPPLE[mVp-p] *1	0 to +50℃	80max	120max	120max	120max	150max	150max
		-20 to 0℃	140max	160max	160max	160max	160max	400max
	RIPPLE NOISE[mVp-p] *1	0 to +50℃	120max	150max	150max	150max	200max	200max
		-20 to 0℃	160max	180max	180max	180max	240max	500max
	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	120max	150max	240max	360max	480max
		-20 to +50℃	75max	180max	180max	290max	440max	600max
	DRIFT[mV] *2		20max	48max	60max	96max	144max	192max
	START-UP TIME[ms]		700typ (ACIN 115V, Io=100%)					
	HOLD-UP TIME[ms]		20typ (ACIN 115V, Io=100%)					
OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		4.25 to 6.00	10.20 to 13.50	13.50 to 17.30	20.40 to 28.50	30.60 to 40.80	40.80 to 55.20	
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		Works over 105% of rating and recovers automatically					
	OVERVOLTAGE PROTECTION[V]		6.25 to 7.25	14.40 to 17.40	18.00 to 21.80	28.80 to 34.80	43.20 to 52.20	57.00 to 67.20
	OPERATING INDICATION		LED (Green)					
	AUXILIARY OUTPUT		Optional (Option -Z□)					
	REMOTE SENSING		Optional (Option -W)					
	REMOTE ON/OFF		Optional (Option -R) Required external power source or auxiliary output (Option -Z□).					
ISOLATION	INPUT-OUTPUT • RC *3		AC3,000V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At room temperature)					
	INPUT-FG		AC2,000V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At room temperature)					
	OUTPUT • RC • AUX-FG *3		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature)					
	OUTPUT-RC • AUX *3		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature)					
ENVIRONMENT	OPERATING TEMP., HUMID.AND ALTITUDE *5		-20 to +70℃ (Output derating is required), 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max					
	STORAGE TEMP., HUMID.AND ALTITUDE		-20 to +75℃, 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					
SAFETY AND NOISE REGULATIONS	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axes					
	AGENCY APPROVALS		UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN					
	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B					
	HARMONIC ATTENUATOR *10		Complies with IEC61000-3-2 class A					

SPECIFICATIONS

OTHERS	CASE SIZE/WEIGHT	150×61×240mm [5.91×2.40×9.45 inches] (Excluding terminal block and screw) (W×H×D) / 2.8kg max
	COOLING METHOD	*9 Forced cooling (internal fan)
WARRANTY	WARRANTY	*6 5 years (subject to the operating conditions)

*1 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 The RC/AUX terminal are added to option -R/-Z models. The RC/AUX terminals are isolated from input, output, and FG.

*4 Output power derating is required. Consult us if the power supply needs to be used for DC input, 440Hz input or AC265-277V input.

*5 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.

*8 Consult us about dynamic load and input response.

*9 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.

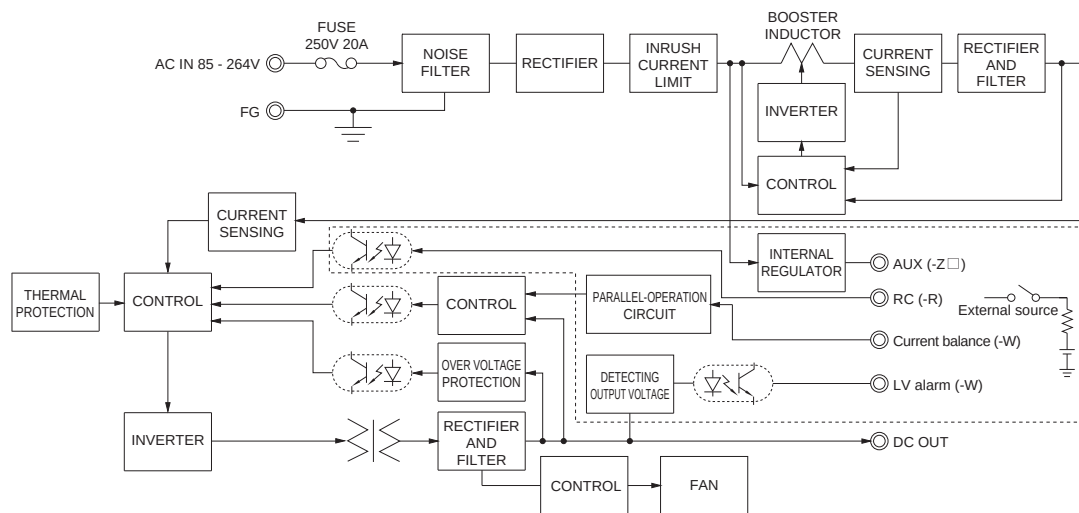
Parallel operation is allowed for PLA600F models with the -W option only.

Sound noise may be heard from the power supply when used for pulse load.

Features

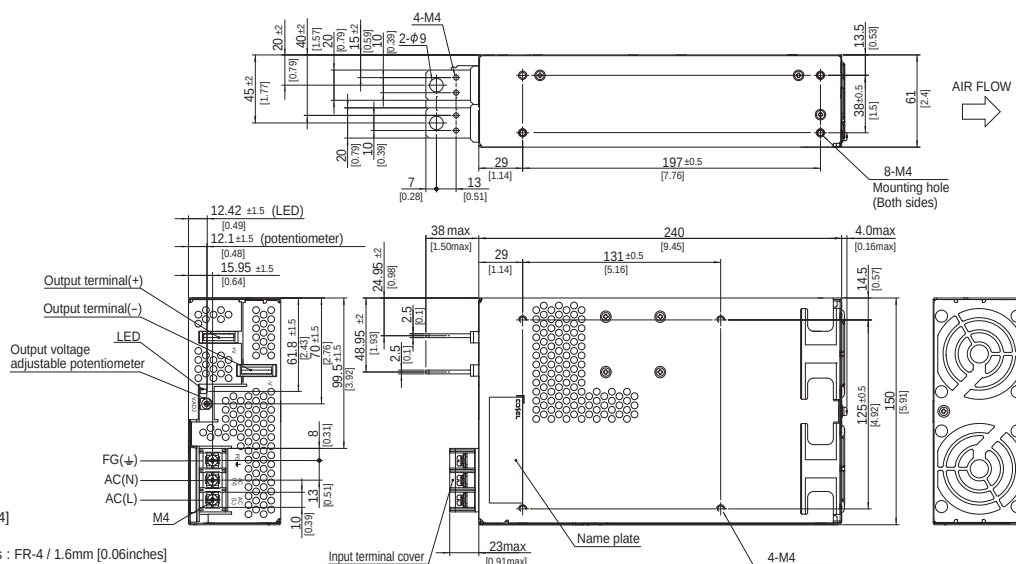
- Cost-effective
- Longer life (see Instruction Manual)
- Low profile (meets 2U height = 61 mm or 2.4 inches)
- Wide operating temperature range (-20°C to +70°C see instruction manual)
- Slow fan speed at no load
- Many optional functions
- Complies with SEMI F-47 (see instruction manual 1.1)

Block diagram



External view

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



- ※ Tolerance : ± 1 [±0.04]
- ※ Weight : 2.8kg max
- ※ PCB Material/thickness : FR-4 / 1.6mm [0.06inches]
- ※ Chassis material : Electric galvanizing steel board
- ※ Case material : Electric galvanizing steel board
- ※ Dimensions in mm, []=inches
- ※ Mounting torque : 1.5N · m max
- ※ Screw tightening torque : 1.6N · m max
- ※ Connect the input FG to safety earth ground.

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Recommended EMI/EMC Filter
NAC-20-472High 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
⑧ Optional *7
C : with Coating
G : Low leakage current
V : External potentiometer for
output voltage adjustment
W: Parallel operation,
LV alarm Remote sensing
R : Remote on/off
(Required external power source
or Option -Z□)
Z□ : AUX Output
Z1 : 5V
Z2 : 12V
Z3 : 24V

See 5.1 in Instruction Manual.

SPECIFICATIONS

	MODEL		PLA1500F-5	PLA1500F-12	PLA1500F-15	PLA1500F-24	PLA1500F-36	PLA1500F-48
INPUT	VOLTAGE[V]		AC85 - 264 1 φ (Output derating is required at AC85V - 115V. See 1.1 and 3.2 in Instruction Manual) *4 (DC input and AC265 - 277V input *4)					
	CURRENT[A]	ACIN 100V	12.5typ (Io=90%)	18typ (Io=90%)				
		ACIN 115V	11.0typ (Io=100%)	16typ (Io=100%)				
		ACIN 230V	5.5typ (Io=100%)	8typ (Io=100%)				
	FREQUENCY[Hz]		50 / 60 (47 - 63) (DC input and 440Hz *4)					
	EFFICIENCY[%]	ACIN 100V	78typ (Io=90%)	82typ (Io=90%)	82typ (Io=90%)	85typ (Io=90%)	85typ (Io=90%)	84typ (Io=90%)
		ACIN 115V	78typ (Io=100%)	82typ (Io=100%)	82typ (Io=100%)	85typ (Io=100%)	85typ (Io=100%)	84typ (Io=100%)
		ACIN 230V	81typ (Io=100%)	85typ (Io=100%)	85typ (Io=100%)	88typ (Io=100%)	88typ (Io=100%)	87typ (Io=100%)
POWER FACTOR	ACIN 100V	0.98typ (Io=90%)						
	ACIN 115V	0.98typ (Io=100%)						
	ACIN 230V	0.95typ (Io=100%)						
INRUSH CURRENT[A]	ACIN 100V	15/30typ (Io=90%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start)						
	ACIN 115V	15/30typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start)						
	ACIN 230V	30/30typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start)						
LEAKAGE CURRENT[ma]		1.5max (ACIN 115V / 240V, 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)						
OUTPUT	VOLTAGE[V]		5	12	15	24	36	48
	CURRENT[A]	ACIN 85-115V	Output derating is required at ACIN 115V or less (refer to instruction manual 3.2)					
		ACIN 115V-264V	200	125	100	64	42	32
	WATTAGE[W]	ACIN 85-115V	Output derating is required at ACIN 115V or less (refer to instruction manual 3.2)					
		ACIN 115V-264V	1000	1500	1500	1536	1512	1536
	LINE REGULATION[mV]		*8 20max	48max	60max	96max	144max	192max
	LOAD REGULATION[mV]		*8 40max	100max	120max	150max	150max	300max
	RIPPLE[mVp-p]	0 to +50℃	80max	120max	120max	120max	150max	150max
		*1 -20 to 0℃	140max	160max	160max	160max	160max	400max
	RIPPLE NOISE[mVp-p]	0 to +50℃	120max	150max	150max	150max	200max	200max
		*1 -20 to 0℃	160max	180max	180max	180max	240max	500max
	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	120max	150max	240max	360max	480max
		*1 -20 to +50℃	75max	180max	180max	290max	440max	600max
	DRIFT[mV]		*2 20max	48max	60max	96max	144max	192max
START-UP TIME[ms]		700typ (ACIN 115V, Io=100%)						
HOLD-UP TIME[ms]		20typ (ACIN 115V, Io=100%)						
OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		4.50 to 6.00		10.20 to 13.50	13.50 to 17.30	20.40 to 28.50	30.60 to 40.80	40.80 to 55.20
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		Works over 105% of rating and recovers automatically					
	OVERVOLTAGE PROTECTION[V]		6.25 to 7.25	14.40 to 17.40	18.00 to 21.80	28.80 to 34.80	43.20 to 52.20	57.00 to 67.20
	OPERATING INDICATION		LED (Green)					
	AUXILIARY OUTPUT		Optional (Option -Z□)					
	REMOTE SENSING		Optional (Option -W)					
	REMOTE ON/OFF		Optional (Option -R) Required external power source or auxiliary output (Option -Z□).					
ISOLATION	INPUT-OUTPUT • RC		*3 AC3,000V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At room temperature)					
	INPUT-FG		AC2,000V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At room temperature)					
	OUTPUT • RC-FG		*3 AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature)					
	OUTPUT-RC		*3 AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature)					
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE		*5 -20 to +70℃ (Output derating is required), 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max					
	STORAGE TEMP., HUMID. AND ALTITUDE		-20 to +75℃, 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 Complies with DEN-AN					
	CONDUCTED NOISE		Complies with FCC Part15 classA, VCCI-A, CISPR22-A, EN55011-A, EN55022-A, additional EMI/EMC Filter required for meeting class B					
	HARMONIC ATTENUATOR		*10 Complies with IEC61000-3-2 class A					

SPECIFICATIONS

OTHERS	CASE SIZE/WEIGHT	178×61×268mm [7.01×2.40×10.55 inches] (Excluding terminal block and screw) (W×H×D) / 3.5kg max
	COOLING METHOD	*9 Forced cooling (internal fan)
WARRANTY	WARRANTY	*6 5 years (subject to the operating conditions)

*1 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 The RC/AUX terminal are added to option -R/-Z models. The RC/AUX terminals are isolated from input, output, and FG.

*4 Output power derating is required. Consult us if the power supply needs to be used for DC input, 440Hz input or AC265-277V input.

*5 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.

*8 Consult us about dynamic load and input response.

*9 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.

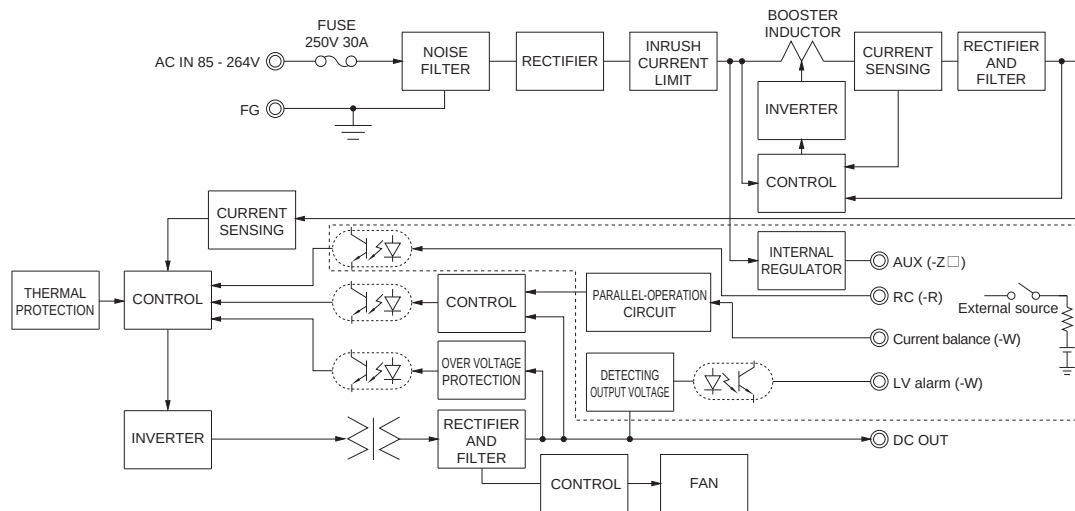
Parallel operation is allowed for PLA600F models with the -W option only.

Sound noise may be heard from the power supply when used for pulse load.

Features

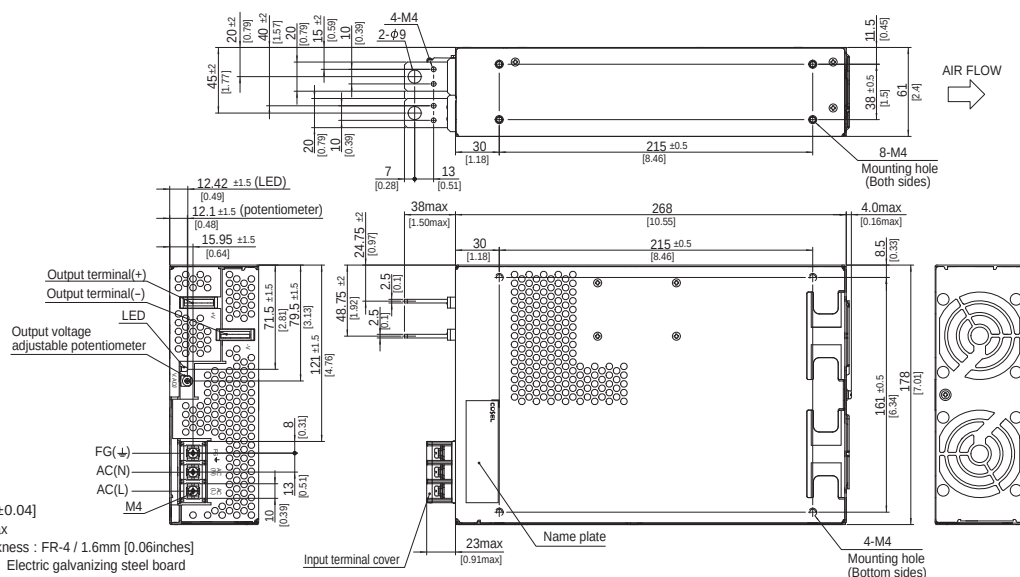
- Cost-effective
- Longer life (see Instruction Manual)
- Low profile (meets 2U height = 61 mm or 2.4 inches)
- Wide operating temperature range (-20°C to +70°C see instruction manual)
- Slow fan speed at no load
- Many optional functions
- Complies with SEMI F-47 (see instruction manual 1.1)

Block diagram



External view

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



- ※ Tolerance : ± 1 [±0.04]
- ※ Weight : 3.5kg max
- ※ PCB Material/thickness : FR-4 / 1.6mm [0.06inches]
- ※ Chassis material : Electric galvanizing steel board
- ※ Case material : Electric galvanizing steel board
- ※ Dimensions in mm, []=inches
- ※ Mounting torque : 1.5N · m max
- ※ Screw tightening torque : 1.6N · m max
- ※ Connect the input FG to safety earth ground.

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