PLA100F

PL A 100









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

- ①Series name ②Single output ③Output wattage ④Universal input (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)

Refer to instruction manual 5.1 about optional.

SPECIFICATIONS

* Please consider "PRA100F-5-N" about 5V output with case cover

M	ODEL		PLA100F-12	PLA100F-15	PLA100F-24	PLA100F-36	PLA100F-48			
127	OLTACEIVE		AC85 - 264 1 φ (Out	put derating is require	d at AC85V - 115V. Ref	er to instruction manua				
V	VOLTAGE[V]		(DC input *3)				,			
	ACIN 100V		1.2typ (Io=90%)							
CI	URRENT[A]									
		ACIN 230V	0.6yp (lo=100%)							
FF	REQUENCY[Hz]		50 / 60 (47 - 63) (DC	input and 440Hz *3)						
	ACI		82typ (lo=90%)	83typ (Io=90%)	85typ (Io=90%)	86typ (Io=90%)	86typ (Io=90%)			
EI	FFICIENCY[%]	ACIN 115V	82typ (lo=100%)	83typ (Io=100%)	85typ (lo=100%)	86typ (Io=100%)	86typ (lo=100%)			
NPUT		ACIN 230V	85typ (lo=100%)	86typ (Io=100%)	88typ (lo=100%)	89typ (Io=100%)	89typ (lo=100%)			
		ACIN 100V	0.98typ (lo=90%)		•	•				
P	OWER FACTOR	ACIN 115V	0.98typ (lo=100%)							
		ACIN 230V	0.95typ (lo=100%) >	Power factor correct	ion is stopped at AC25	0V or more.				
		ACIN 100V	16typ (lo=90%) Ta=2	25°C at cold start						
IN	IRUSH CURRENT[A]	ACIN 115V	16typ (Io=100%) Ta=25°C at cold start							
		ACIN 230V	32typ (lo=100%) Ta=	=25°C at cold start						
LE	EAKAGE CURRENT	[mA]			%, According to IEC60	950-1 and DEN-AN)				
V	OLTAGE[V]		12	15	24	36	48			
		ACIN 85-115V	Output derating is re	quired at ACIN 115V o	r less (refer to instruct	ion manual 3.2)				
C	URRENT[A]	ACIN 115V-264V	8.4	6.7	4.3	2.8	2.1			
		ACIN 85-115V	Output derating is re	quired at ACIN 115V o	r less (refer to instruct	ion manual 3.2)	-			
W	WATTAGE[W]	ACIN 115V-264V	100.8	100.5	103.2	100.8	100.8			
LI	INE REGULATION[m			60max	96max	144max	192max			
	OAD REGULATION		100max	120max	150max	150max	300max			
	[mV] *4			ise contact us about d						
 -	IPPLE[mVp-p]		120max	120max	120max	150max	150max			
	*1		160max	160max	160max	200max	400max			
UTPUT	lo: load factor			500max	500max	500max	500max			
DII	PPLE NOISE[mVp-p]		150max	150max	150max	200max	200max			
""	*1		180max	180max	180max	240max	500max			
	lo: load factor		600max	600max	600max	600max	600max			
		0 to +40°C	120max	150max	240max	360max	480max			
TEI	TEMPERATURE REGULATION[mV]	-10 to +40°C		180max	290max	440max	600max			
DF	DRIFT[mV] *2		48max	60max	96max	144max	192max			
_	START-UP TIME[ms]		500typ (ACIN 115V, Io=100%) Ta=25℃							
	OLD-UP TIME[ms]		20typ (ACIN 115V, Io=100%) 1a=23 C							
	JTPUT VOLTAGE ADJUSTMEN	T RANGEIVI		13.50 to 16.50	21.60 to 26.40	32.40 to 39.60	43.20 to 52.80			
	UTPUT VOLTAGE SETTI		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			
	VERCURRENT PROTE			rating and recovers a		1	,			
	VERVOLTAGE PROTEC		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)							
	EMOTE SENSING		Not provided							
	EMOTE ON/OFF		Optional (Required external power source. Option -R)							
	IPUT-OUTPUT • RC	*9	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)							
IN	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)							
SOLATION —	UTPUT • RC-FG	*9	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At room temperature)							
_	OUTPUT-RC *9									
	PERATING TEMP., HUMID. AND A					densing), 3,000m (10,	000 feet) max			
ST					g), 9,000m (30,000 feet)					
VVIRONMENI ──	STORAGE TEMP., HUMID. AND ALTITUDE VIBRATION				60minutes each along					
_	MPACT		· · · · · · · · · · · · · · · · · · ·	ms, once each X, Y an		,, =				
	GENCY APPROVALS	3				Except option -J) Comp	olies with DFN-AN			
	ONDUCTED NOISE	-			EN55011-B, EN55022	<u> </u>	SSS WIGH DEN AN			
	ARMONIC ATTENUA	TOR *8	Complies with IEC61	· · · · · · · · · · · · · · · · · · ·	LINUUUT I D, LINUUUZZ	U				
3-MIO M/	ATTIVIONIC AT LENUA	NON *0	COMPHES WITH IECO I	000-0-2 01055 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	ITY WARRANTY *6 5-year (Depends on the used condition)	

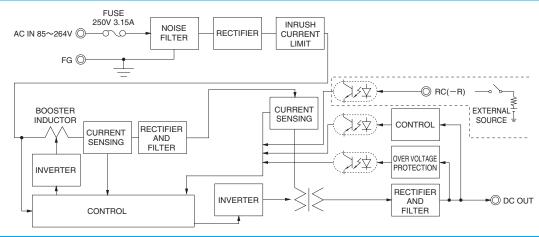
- This is the value that measured on measuring board with capacitor of 22 µF and 0.1 µF at 150mm from output terminal Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM103)
 - Please refer to the instruction manual 1.6 Ripple and ripple noise spec is change at lo=0 \sim 30% by low
- Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25℃
- *3 Derating is required. As for DC input, please contact us. *4 Please contact us about dynamic load and input response Also, please measure output voltage in average mode because of burst operation at 30% load or less.
- *5 Derating is required. Please refer to instruction manual 3.2.
- As for detail condtion, please refer to instruction manual 3.3. Please contact us about safety approvals for the model with option
- *8 Please contact us about other class.

- *9 RC terminal is applied at option -R. And RC terminal is isolated from input, output and FG
- To meet the specifications, do not operate over-loaded condition
 - Parallel operation is not possible
- A sound may occur from power supply at peak loading

Features

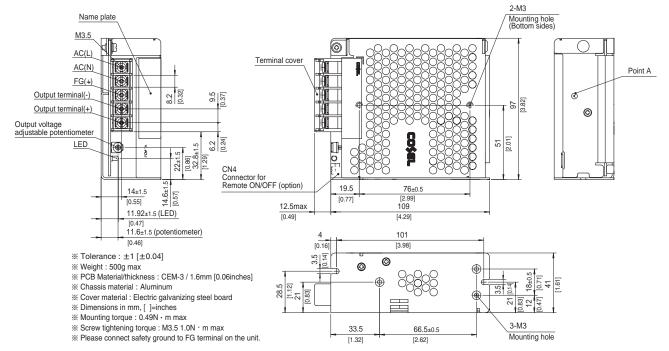
- · Compact design (Depth: 109mm 4.29inches)
- · High efficiency (88%typ PLA100F-24, AC230Vin, 100% load)
- · Low power consumption (1.5W typ AC240Vin, no load at standard model)
- · Lower power consumption (0.5Wmax AC240Vin, no load at option -L: refer to instruction manual)
- · UL508 approved, and complies with SEMI F-47 (Depends on the used condition)
- · Various option (Optional connectors : Vertical terminal block, Connector wiring)

Block diagram



External view

External size of option R, J and T is different from standard model, and refer to "5 Option and others" of instruction manual for detail.



PLA150F

PL A 150









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

- ①Series name ②Single output ③Output wattage ④Universal input

- (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)

Refer to instruction manual 5.1 about optional.

SPECIFICATIONS

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

IV	MODEL		PLA150F-12	PLA150F-15	PLA150F-24	PLA150F-36	PLA150F-48				
,,	(OLTAGED)		AC85 - 264 1 φ (Out	put derating is require	d at AC85V - 115V. Ref	er to instruction manua	al 1.1 and 3.2) *3				
V	VOLTAGE[V] ACIN 100V		(DC input *3)				·				
			1.7typ (lo=90%)								
C	CURRENT[A]	ACIN 115V									
		ACIN 230V	0.8yp (lo=100%)								
F	FREQUENCY[Hz]		50 / 60 (47 - 63) (DC	input and 440Hz *3)							
		ACIN 100V	84typ (lo=90%)	84typ (Io=90%)	87typ (Io=90%)	87typ (Io=90%)	87typ (Io=90%)				
E	EFFICIENCY[%]	ACIN 115V	84typ (lo=100%)	84typ (Io=100%)	87typ (Io=100%)	87typ (lo=100%)	87typ (Io=100%)				
NPUT		ACIN 230V	87typ (lo=100%)	87typ (Io=100%)	90typ (lo=100%)	90typ (Io=100%)	90typ (Io=100%)				
		ACIN 100V	0.98typ (lo=90%)		,						
P	POWER FACTOR	ACIN 115V	0.98typ (lo=100%)								
		ACIN 230V	0.95typ (lo=100%) >	0.95typ (Io=100%) * Power factor correction is stopped at AC250V or more.							
		ACIN 100V	16typ (lo=90%) Ta=2	25°C at cold start							
II	NRUSH CURRENT[A]	ACIN 115V	16typ (Io=100%) Ta=25°C at cold start								
		ACIN 230V	32typ (lo=100%) Ta:	=25°C at cold start							
L	EAKAGE CURRENT	[mA]			%, According to IEC60	950-1 and DEN-AN)					
V	/OLTAGE[V]		12	15	24	36	48				
		ACIN 85-115V	Output derating is re	quired at ACIN 115V o	r less (refer to instruct	ion manual 3.2)					
C	CURRENT[A]	ACIN 115V-264V		10	6.4	4.2	3.2				
		ACIN 85-115V			r less (refer to instruct						
l M	WATTAGE[W]	ACIN 115V-264V		150.0	153.6	151.2	153.6				
L	LINE REGULATION[mV] *4		48max	60max	96max	144max	192max				
	OAD REGULATION		100max	120max	150max	150max	300max				
	[mV] *4			ase contact us about d							
<u>-</u>	RIPPLE[mVp-p]		120max	120max	120max	150max	150max				
''	*1		160max	160max	160max	200max	400max				
UTPUT	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		180max	180max	180max	240max	500max				
	lo: load factor		600max	600max	600max	600max	600max				
		0 to +40°C	120max	150max	240max	360max	480max				
TE	TEMPERATURE REGULATION[mV]		180max	180max	290max	440max	600max				
D	DRIFT[mV] *2		48max	60max	96max	144max	192max				
_	START-UP TIME[ms]		500typ (ACIN 115V,								
-	HOLD-UP TIME[ms]		20typ (ACIN 115V, Id								
_	OUTPUT VOLTAGE ADJUSTMEN	IT RANGE[V]		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 a		, , , , , , , , , , , , , , , , , , , ,					
	OVERVOLTAGE PROTEC		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								
F.	REMOTE ON/OFF		Optional (Required external power source. Option -R)								
	NPUT-OUTPUT • RC	*9	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)								
II	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)								
OLATION ⊢	OUTPUT • RC-FG	*9	AC5,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)								
_	OUTPUT · RC-FG *9										
	PERATING TEMP., HUMID. AND /					densing), 3,000m (10,	000 feet) max				
S.	TORAGE TEMP.,HUMID.AND		· ·	<u> </u>	g), 9,000m (30,000 feet)	0,,,,	555 166t, 111ax				
UVIRONIMIENI —	/IBRATION	ALITIODE		•	g), 9,000m (30,000 leet) , 60minutes each along						
_	MPACT			ms, once each X, Y an		, A, 1 and 2 ands					
1.	AGENCY APPROVALS	<u> </u>	- /-			Except option -J) Com	nlies with DEN-AN				
	CONDUCTED NOISE				EN55011-B, EN55022		JIIOS WILLI DEN-AN				
	HARMONIC ATTENUA	ATOR **	Complies with IEC61	· · · · · · · · · · · · · · · · · · ·	LINDOUT I-D, EINDOUZZ	ט					
	TATHVIONIC AT LENUA	TION TO	Complies with IECD I	000-0-2 01855 A							





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-year (Depends on the used condition)

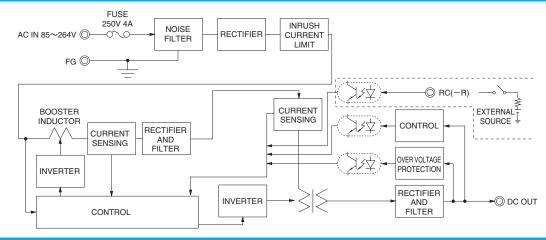
- This is the value that measured on measuring board with capacitor of 22 µF and 0.1 µF at 150mm from output terminal Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM103)
 - Please refer to the instruction manual 1.6. Ripple and ripple noise spec is change at lo=0 \sim 30% by low
- Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25℃
- *3 Derating is required. As for DC input, please contact us. *4 Please contact us about dynamic load and input response Also, please measure output voltage in average mode because of burst operation at 30% load or less.
 - Derating is required. Please refer to instruction manual 3.2.
 - As for detail condtion, please refer to instruction manual 3.3. Please contact us about safety approvals for the model with optio
- Please contact us about other class.

- *9 RC terminal is applied at option -R. And RC terminal is isolated from input, output and FG
- To meet the specifications, do not operate over-loaded condition.
 - Parallel operation is not possible
- A sound may occur from power supply at peak loading.

Features

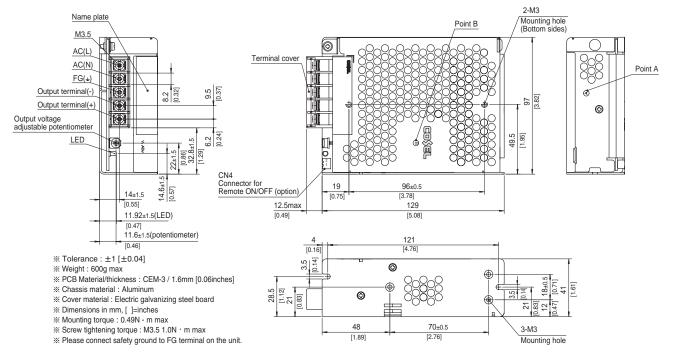
- · Compact design (Depth: 129mm 5.08inches)
- · High efficiency (90%typ PLA150F-24, AC230Vin, 100% load)
- · Low power consumption (1.5W typ AC240Vin, no load at standard model)
- · Lower power consumption (0.5Wmax AC240Vin, no load at option -L: refer to instruction manual)
- · UL508 approved, and complies with SEMI F-47 (Depends on the used condition)
- · Various option (Optional connectors : Vertical terminal block, Connector wiring)

Block diagram



External view

External size of option R, J and T is different from standard model, and refer to "5 Option and others" of instruction manual for detail.



PLA300F

A 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.

- ①Series name ②Single output ③Output wattage ④Universal input
- (5) Output voltage
- GOttput voltage
 Gottput voltage
 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 (Not screw hold type)

Refer to instruction manual 5.1 about optional.

SPECIFICATIONS

	MODEL		PLA300F-5	PLA300F-12	PLA300F-15	PLA300F-24	PLA300F-36	PLA300F-48			
	VOLTAGE[V]			,	equired at AC85V -	115V. Refer to instr	ruction manual 1.1	and 3.2) *3			
			(DC input and AC265 - 277V input *3)								
		ACIN 100V	3.1typ (Io=90%)								
	CURRENT[A]	ACIN 115V	7. (3.3typ (Io=100%)							
		ACIN 230V		1.7typ (Io=100%)							
	FREQUENCY[Hz]	FREQUENCY[Hz]		DC input and 440H	z *3)						
		ACIN 100V	73typ (Io=90%)	78typ (Io=90%)	80typ (Io=90%)	84typ (Io=90%)	84typ (Io=90%)	84typ (Io=90%)			
NPUT	EFFICIENCY[%]	ACIN 115V	74typ (lo=100%)	78typ (Io=100%)	80typ (Io=100%)	84typ (Io=100%)	84typ (Io=100%)	84typ (Io=100%			
NPUI		ACIN 230V	77typ (lo=100%)	81typ (Io=100%)	83typ (Io=100%)	87typ (Io=100%)	87typ (Io=100%)	87typ (Io=100%			
		ACIN 100V	0.98typ (Io=90%)								
	POWER FACTOR	ACIN 115V	0.98typ (lo=100%)								
		ACIN 230V	0.95typ (lo=100%	n)							
		ACIN 100V	20typ (lo=90%) T	a=25℃ at cold start	t						
	INRUSH CURRENT[A]	ACIN 115V	20typ (lo=100%)	Otyp (Io=100%) Ta=25°C at cold start							
		ACIN 230V	40typ (lo=100%)	Ta=25°C at cold sta	rt						
	LEAKAGE CURRENT	[mA]	0.75max (ACIN 11	15V / 240V, 60Hz, Id	o=100%, According	to IEC60950-1 and	d DEN-AN)				
	VOLTAGE[V]		5	12	15	24	36	48			
		ACIN 85-115V	Output derating is	required at ACIN 1	15V or less (refer t	instruction manu	al 3.2)				
	CURRENT[A]	ACIN 115V-264V	50	25	20	12.5	8.4	6.3			
		ACIN 85-115V	Output derating is	required at ACIN 1	15V or less (refer t	o instruction manua	al 3.2)				
	WATTAGE[W]	ACIN 115V-264V	250	300	300	300	302.4	302.4			
	LINE REGULATION[n		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			
			140max	160max	160max	160max	160max	400max			
UTPUT	DIDDLE NOICEIV1	0 to +50°C	120max	150max	150max	150max	200max	200max			
	RIPPLE NOISE[mVp-p]	-10 to 0°C	160max	180max	180max	180max	240max	500max			
	*1	0 to +50°C	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]	42	300typ (ACIN 115		Oomax	Joinax	144IIIAX	TJZITIAX			
	HOLD-UP TIME[ms]		20typ (ACIN 115V								
		IT DANGER/I	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 ADJUSTMENT RANGE[V] 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 PROTE	- 1 1		of rating and recov		24.00 10 24.90	30.00 10 37.44	40.00 10 49.92			
			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			
ROTECTION IRCUIT AND	OVERVOLTAGE PROTE			13.00 to 10.00	17.20 to 21.00	21.00 10 33.00	41.40 (0 30.40	33.20 (0 07.20			
THERS	REMOTE SENSING	ION	LED (Green)								
THENS			Not provided								
	REMOTE ON/OFF	*10	Optional (Required external power source. Option -R)								
	INPUT-OUTPUT · RC	*10	((
SOLATION	INPUT-FG	140	AC2,000V 1 minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)								
	OUTPUT · RC-FG		() ()								
	OUTPUT-RC	*10	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At room temperature) -20 to +70°C (Output derating is required), 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max								
	OPERATING TEMP.,HUMID.AND		,				3,000m (10,000 fe	et) max			
NVIRONMENT		STORAGE TEMP.,HUMID.AND ALTITUDE			densing), 9,000m (30	, ,	-				
	VIBRATION			. ,.	period, 60minutes e	ach along X, Y and	∠ axes				
	IMPACT			11ms, once each X							
AFETY AND	AGENCY APPROVAL	S			60950-1, EN50178		I-AN				
	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B								
IOISE REGULATIONS	HARMONIC ATTENU		Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B Complies with IEC61000-3-2 class A								



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	NTY WARRANTY	

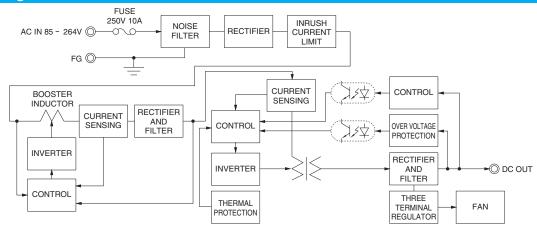
- This is the value that measured on measuring board with capacitor of 22 µF and 0.1 µF at 150mm from output terminal Measured by 20MHz oscilloscope or Ripple-Noise meter
 - (Equivalent to KEISOKU-GIKEN: RM103) Please refer to the instruction manual 1.6.
- *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25℃
- *3 Derating is required. As for DC input, 440Hz input and AC265 to 277V input, please contact us.
- Please contact us about dynamic load and input response.
- Derating is required. Please refer to instruction manual 3.2.
- As for detail condtion, please refer to instruction manual 3.3. Please contact us about safety approvals for the model with option
- Fan speed is changed by load factor

- *9 Please contact us about other class.
- *10 BC terminal is applied at option -B. And BC terminal is isolated from input, output and FG.
- To meet the specifications, do not operate over-loaded condition
- Parallel operation is not possible.
- A sound may occur from power supply at peak loading.

Features

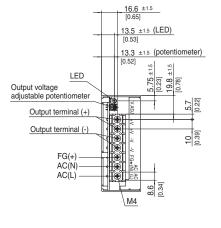
- · Economical model
- · Long lifetime (Refer to instruction manual)
- · Low profile (41mm, 1.61 inch = meet to 1U height)
- · Wide temperature range (-20°C to +70°C Refer to instruction manual)
- · Screw hold type terminal block
- · Fan speed control (At no load condition)
- · Various option
- · Complies with SEMI F-47 (Option-U: Refer to instruction manual)

Block diagram

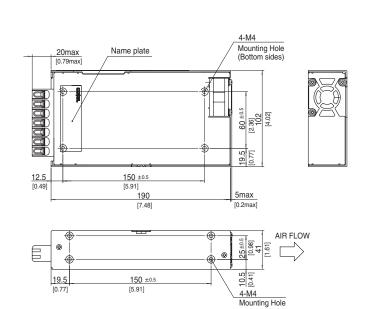


External view

External size of option V, option R and option T2 is different from standard model, and refer to "5. Option and Others" of instruction manual for detail.



- * Tolerance : ±1 [±0.04]
- * Weight: 1.0kg max
- PCB Material/thickness: CEM-3 / 1.6mm [0.06inches]
- ※ Chassis material: Aluminum
- * Case material: Electric galvanizing steel board
- ※ Dimensions in mm, []=inches ※ Mounting torque: 1.2N ⋅ m max
- ※ Screw tightening torque: 1.6N ⋅ m max * Please connect safety ground to FG terminal on the unit.



PLA600F

600







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
 (7) C: with Coating
 (8] E. Low leakage current
 (9) V: External potentiometer for output voltage adjustment
 (1) C. Low input voltage stop
 (Complies with SEMI F-47)
 (1) W: Parallel operation,
 (2) Low leakage senoing
 (3) R: Remote on/off
 (4) Required external power source
 (5) F4: Low speed fan

 - F4: Low speed fan T2: Horizontal terminal block (Not screw hold type)

Refer to instruction manual 5.1 about optional.

SPECIFICATIONS

	MODEL		PLA600F-5	PLA600F-12	PLA600F-15	PLA600F-24	PLA600F-36	PLA600F-48		
\	VOLTAGE[V]		AC85 - 264 1 φ (0	utput derating is re	equired at AC85V -	115V. Refer to instr	uction manual 1.1	and 3.2) *4		
Ľ			(DC input and AC265 - 277V input *4)							
		ACIN 100V	6.2typ (Io=90%)	6.7typ (Io=90%)						
0	CURRENT[A]	ACIN 115V	6.0typ (lo=100%)	6.5typ (lo=100%)						
		ACIN 230V	3.0typ (Io=100%)	3.2typ (lo=100%)						
F	REQUENCY[Hz]		50 / 60 (47 - 63) (DC input and 440H	z *4)					
		ACIN 100V	74typ (lo=90%)	81typ (lo=90%)	81typ (Io=90%)	84typ (Io=90%)	85typ (Io=90%)	85typ (lo=90%)		
INPUT	FFICIENCY[%]	ACIN 115V	75typ (lo=100%)	81typ (lo=100%)	81typ (Io=100%)	84typ (Io=100%)	85typ (Io=100%)	85typ (lo=100%)		
INPUI		ACIN 230V	77typ (lo=100%)	84typ (lo=100%)	84typ (Io=100%)	88typ (Io=100%)	88typ (Io=100%)	88typ (Io=100%)		
		ACIN 100V	0.98typ (lo=90%)							
F	POWER FACTOR	ACIN 115V	0.98typ (lo=100%)							
		ACIN 230V	0.95typ (lo=100%)						
		ACIN 100V	20/40typ (Io=90%) (Primary inrush o	current /Secondary	inrush current) (N	Nore than 3sec to re	e-start)		
l II	NRUSH CURRENT[A]	ACIN 115V	20/40typ (lo=100°	%) (Primary inrush	current /Secondary	y inrush current) (More than 3sec to	re-start)		
		ACIN 230V	40/40typ (lo=1009	%) (Primary inrush	current /Secondar	(inrush current)	More than 3sec to	re-start)		
ī	EAKAGE CURRENT	[mA]	1.5max (ACIN 115	5V / 240V, 60Hz, Io:	=100%, According	to IEC60950-1 and	DEN-AN)	<u> </u>		
	/OLTAGE[V]		5	12	15	24	36	48		
		ACIN 85-115V	Output derating is	required at ACIN 1	15V or less (refer t	o instruction manua	al 3.2)			
C	CURRENT[A]	ACIN 115V-264V	100	50	40	25	16.7	12.5		
		ACIN 85-115V	Output derating is	required at ACIN 1	15V or less (refer t	o instruction manua	al 3.2)	-		
Į V	VATTAGE[W]	ACIN 115V-264V	500	600	600	600	601.2	600		
ī	INE REGULATION[m		20max	48max	60max	96max	144max	192max		
-	LOAD REGULATION[mV] *8		40max	100max	120max	150max	150max	300max		
-	RIPPLE[mVp-p]		80max	120max	120max	120max	150max	150max		
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		140max	160max	160max	160max	160max	400max		
OUTPUT	RIPPLE NOISE[mVp-p]	0 to +50°C		150max	150max	150max	200max	200max		
"		-20 to 0°C		180max	180max	180max	240max	500max		
	TEMPERATURE REGULATION[mV]	0 to +50°C	50max	120max	150max	240max	360max	480max		
Т		-20 to +50°C	75max	180max	180max	290max	440max	600max		
T	DRIFT[mV]	*2	20max	48max	60max	96max	144max	192max		
<u> </u>	START-UP TIME[ms]		300typ (ACIN 115		Oomax	Joinax	ΙΤΤΙΙΙαΛ	Ισειπαλ		
-			20typ (ACIN 115V							
-	HOLD-UP TIME[ms]		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		
<u> </u>	OUTPUT VOLTAGE ADJUSTMENT RANGE[V] 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		
	VERCURRENT PROTE			of rating and recov		24.00 10 24.90	30.00 10 37.44	40.00 10 49.92		
_	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		
	PERATING INDICAT		LED (Green)	13.00 to 10.00	17.23 10 21.00	27.00 10 33.00	41.40 10 30.40	33.20 10 07.20		
	REMOTE SENSING	ION	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \							
· -	REMOTE ON/OFF		Optional (Option -W)							
	NPUT-OUTPUT · RC	40	Optional (Required external power source. Option -R)							
-		*3	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)							
ISOLATION -	INPUT-FG		AC2,000V 1 minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)							
_	OUTPUT · RC-FG *3		rice of riminate, eaten earlier receive, 2 court comments (rice comments)							
	OUTPUT-RC *3						<u> </u>	at\		
-	PERATING TEMP.,HUMID.AND					(Non condensing),	3,000111 (10,000 Te	er) Illax		
FNVIRONMENI —	TORAGE TEMP.,HUMID.AND	ALITIUDE			densing), 9,000m (3		7 01/00			
-	VIBRATION					each along X, Y and	∠ axes			
	MPACT		, ,,	11ms, once each X	,	0	1 0 0 1			
	AGENCY APPROVAL	5				Complies with DEN	I-AN			
	CONDUCTED NOISE				R22-B, EN55011-B,	EN55022-B				
REGULATIONS F	HARMONIC ATTENUA	ATOR *10	Complies with IEC	61000-3-2 class A						





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
OTHERS	COOLING METHOD *9	Forced cooling (internal fan)
WARRANTY	NTY WARRANTY *6 5-year (Depends on the used condition)	

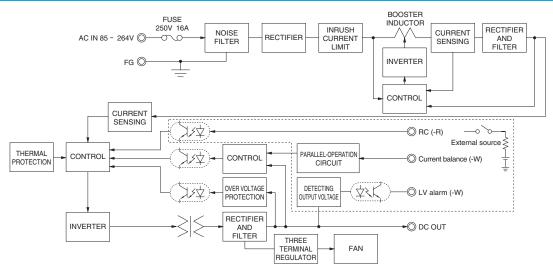
- This is the value that measured on measuring board with capacitor of 22 µF and 0.1 µF at 150mm from output terminal.

 Measured by 20MHz oscilloscope or Ripple-Noise meter
 - (Equivalent to KEISOKU-GIKEN: RM103). Please refer to the instruction manual 1.6
- Drift is the change in DC output for an eight hour period after a
- RC terminal is applied at option -R. And RC terminal is isolated
- from input, output and FG.
 Derating is required. As for DC input, 440Hz input and AC265 to
- 277V input, please contact us.
 Derating is required. Please refer to instruction manual 3.2 As for detail condtion, please refer to instruction manual 3.3.
- Please contact us about safety approvals for the model with option.
- Please contact us about dynamic load and input response.
- Fan speed is changed by load factor. Please contact us about other class.
- To meet the specifications, do not operate over-loaded condition. Parallel operation with other model is not possible. In case of
- parallel operation with same model, please use option -W.
- A sound may occur from power supply at peak loading.

Features

- · Economical model
- · Long lifetime (Refer to instruction manual)
- · Low profile (61mm, 2.40 inch = meet to 2U height)
- · Wide temperature range (-20°C to +70°C Refer to instruction manual)
- · Screw hold type terminal block (Only input and FG terminal)
- · Fan speed control (At no load condition)
- · Various option
- · Complies with SEMI F-47 (Option-U: Refer to instruction manual)

Block diagram



External view

External size of option V, option W, option R and option T2 are different from standard model, and refer to "5. Option and Others" of instruction manual for detail.

