

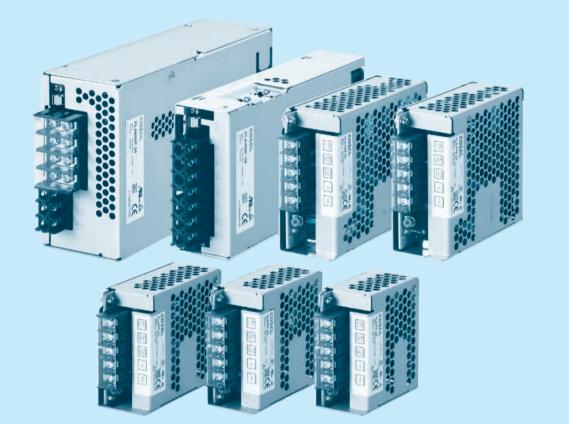






(MA) FMI Inrush current





Feature

Low Profile (15, 30, 50, 100, 150, 300W : 1U size. 600W : 2U size) Wide temperature range (-20°C to +70°C, Derating is required) Harmonic attenuator (Complies with IEC61000-3-2 class A) Universal input (AC85 - 264V, Derating is required) Low power consumption at no load Screw hold type terminal block (Only PLA300F and PLA600F)

Complies with SEMI F-47 (Option -U : Refer to instruction manual) Many optional functions

Safety agency approvals

UL60950-1, C-UL (CSA60950-1), EN62368-1 UL508 (PLA15F-150F) approved Complies with DEN-AN

5-year warranty (See Instruction Manual)

CE marking

Low Voltage Directive

UKCA marking

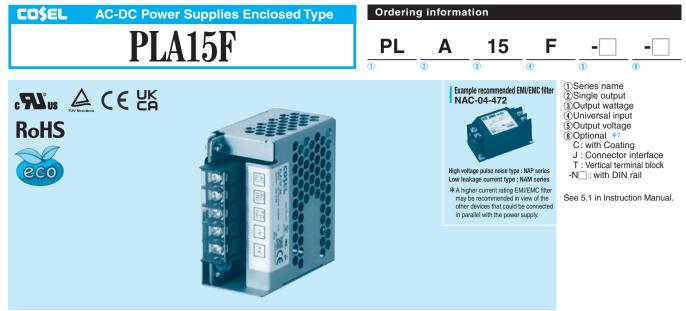
Electrical Equipment Safety Regulations RoHS Regulations

EMI

Complies with FCC-B, CISPR22-B, EN55011-B, EN55022-B, VCCI-B

EMS Compliance : EN61204-3, EN61000-6-2

EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-8 EN61000-4-11



M	IODEL		PLA15F-5	PLA15F-12	PLA15F-15	PLA15F-24				
V	OLTAGE[V]		AC85 - 264 1 ¢ (Output der	ating is required at AC85V -	115V. See 1.1 and 3.2 in Inst	ruction Manual) *3				
		ACIN 100V	0.4typ (lo=90%)							
c	URRENT[A]	ACIN 115V	0.4typ (lo=100%)							
		ACIN 230V	0.25typ (lo=100%)							
F	REQUENCY[Hz]		50 / 60 (47 - 63)							
	ACIN 100V		72.5typ (lo=90%)	75.5typ (lo=90%)	77.0typ (lo=90%)	78.0typ (lo=90%)				
	FFICIENCY[%]	ACIN 115V	73.5typ (lo=100%)	77.0typ (lo=100%)	78.5typ (lo=100%)	79.0typ (lo=100%)				
		ACIN 230V	75.5typ (lo=100%)	78.5typ (lo=100%)	79.5typ (lo=100%)	80.0typ (lo=100%)				
		ACIN 100V	16typ (Io=90%) Ta=25℃ at							
IN	NRUSH CURRENT[A]	ACIN 115V	16typ (lo=100%) Ta=25°C a							
		ACIN 230V	32typ (lo=100%) Ta=25℃ a							
L	EAKAGE CURRENT	[mA]	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		g to IEC62368-1 and DEN-AN	1)				
	OLTAGE[V]	<u> </u>	5	12	15	24				
	URRENT[A]		3	1.3	1	0.7				
	ACIN 85-115V		Output derating is required							
w	VATTAGE[W]	ACIN 115V-264V	15.0	15.6	15.0	16.8				
	LINE REGULATION[mV] *4		20max	48max	60max	96max				
	OAD REGULATION	-	40max	100max	120max	150max				
	RIPPLE[mVp-p] *1	0 to +50℃	80max	120max	120max	120max				
В		-10 to 0°C	140max	160max	160max	160max				
		lo=0 to 35%		240max	240max	280max				
	RIPPLE NOISE[mVp-p] *1	0 to +50℃	120max	150max	150max	150max				
		-10 to 0°C	160max	180max	180max	180max				
			240max	300max	300max	320max				
-		0 to +50℃	50max	120max 1		240max				
TE	EMPERATURE REGULATION[mV]	-10 to +50°C	60max			290max				
	RIFT[mV]	*2	20max	48max	180max 60max	96max				
	TART-UP TIME[ms]		200typ (ACIN 115V, Io=100			put again from turning off the input voltage				
	IOLD-UP TIME[ms]		20typ (ACIN 115V, Io=100%	<u> </u>						
	UTPUT VOLTAGE ADJUSTMEN	TRANGEIVI	4.50 to 5.50	10.80 to 13.20	13.50 to 16.50	21.60 to 26.40				
	OUTPUT VOLTAGE SETTI		5.00 to 5.15	12.00 to 12.48	15.00 to 15.60	24.00 to 24.96				
	VERCURRENT PROTE		Works over 105% of rating a		13.00 10 13.00	27.00 10 24.30				
	VERVOLTAGE PROTE		5.75 to 7.00	13.80 to 16.80	17.25 to 21.00	27.60 to 33.60				
	PERATING INDICAT		LED (Green)	10.00 10 10.00	17.20 to 21.00	27.00 10 00.00				
	REMOTE SENSING		Not provided							
<u> </u>	REMOTE ON/OFF		Not provided							
	NPUT-OUTPUT			urrent = 10mA DC500V 50	$M\Omega$ min (At room temperature	e)				
	NPUT-FG		, ,	,	$M\Omega$ min (At room temperature	,				
	DUTPUT-FG				Ω min (At room temperature)					
-	PERATING TEMP., HUMID.AND		-20 to +70°C, 20 - 90%RH (,						
	TORAGE TEMP., HUMID.AND		-20 to +75°C, 20 - 90%RH (0 // /						
NVIRONMENT —	IBRATION	ALINOUL	10 - 55Hz, 19.6m/s ² (2G), 3	e /·····						
	MPACT		196.1m/s ² (20G), 11ms, on		aun along A, T and Z axes					
					Except option -J) Complies wit					
	CONDUCTED NOISE	5	Complies with FCC-B, VCC		, .					
	ARMONIC ATTENU		Complies with IEC61000-3-		J, LINJJUZZ-D					
H	IANNONIC AT LENUA		Complies with IEC61000-3-	2 UIASS A						

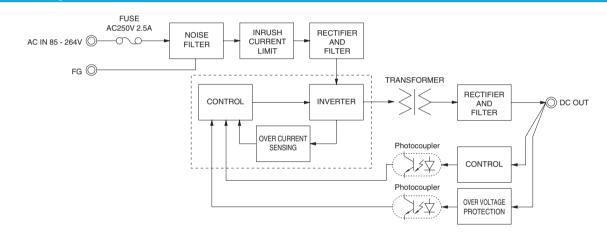


OTHERS	CASE SIZE/WEIGHT	38×80×73mm [1.50×3.15×2.87 ir	nches	s] (Excluding terminal block and screw) (W×H×D) / 250g max				
OTHERS	COOLING METHOD	Convection						
WARRANTY	WARRANTY *6	5 years (subject to the operating con	ditior	าร)				
mm from th Giken RM1 See 1.6 of When the I	ne output terminals by a 20 MHz oscilloscope 03. Instruction Manual for more details.	th capacitors of 22 µ F and 0.1 µ F placed at 150 or a ripple-noise meter equivalent to Keisoku- oss is reduced by burst operation, which will cations.	*6 *7	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. Do not use the power supply in overcurrent conditions or in unspecified input voltage ranges. Otherwise the internal components may be damaged.				
*3 As for DC in	change in DC output for an eight hour peri- nput, consult us for advice. about dvnamic load and input response. Mea	od after a half-hour warm-up at 25°C. sure the output voltage by using the average mode	*	Parallel operation is not possible with this mode. Sound noise may be heard from the power supply when used for pulse load.				
	r to deal with the burst operation at 35% load							

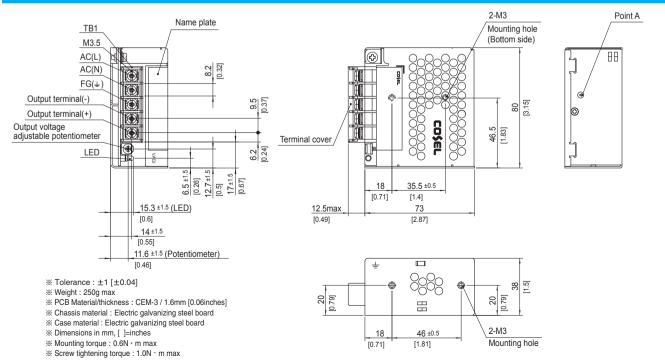
Features

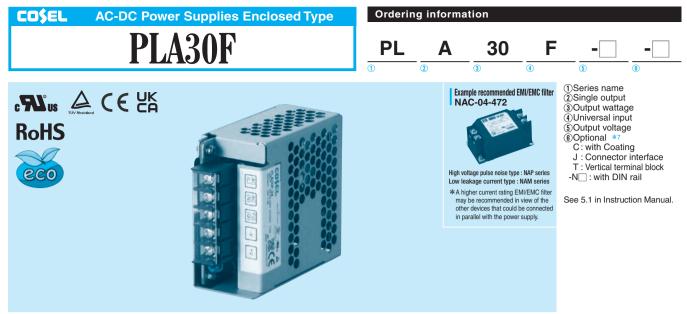
- · Compact design (Depth: 73mm 2.87inches)
- · Low power consumption (1.0W typ AC240Vin, no load at standard model)
- · UL508 approved (Except option -J), and complies with SEMI F47
- · Various connection interface options (vertical terminal [-T], AMP connector [-J])

Block diagram



External view





	MODEL		PLA30F-5	PLA30F-12	PLA30F-15	PLA30F-24					
	VOLTAGE[V]		AC85 - 264 1 ¢ (Output dera	ating is required at AC85V -	115V. See 1.1 and 3.2 in Inst	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)								
INPUT		ACIN 100V	73.0typ (Io=90%)	80.0typ (lo=90%)	81.0typ (Io=90%)	82.5typ (Io=90%)					
NPUT	EFFICIENCY[%]	ACIN 115V	74.0typ (lo=100%)	80.5typ (lo=100%)	81.5typ (lo=100%)	83.0typ (Io=100%)					
		ACIN 230V	77.0typ (lo=100%)								
		ACIN 100V	16typ (Io=90%) Ta=25℃ at c	cold start							
	INRUSH CURRENT[A]	ACIN 115V	16typ (lo=100%) Ta=25℃ at	Styp (lo=100%) Ta=25°C at cold start							
		ACIN 230V	32typ (Io=100%) Ta=25℃ at								
	LEAKAGE CURRENT	[mA]	0.65max (ACIN 115V / 240V	0.65max (ACIN 115V / 240V, 60Hz, Io=100%, According to IEC62368-1 and DEN-AN)							
	VOLTAGE[V]		5	12	15	24					
	CURRENT[A]		6	2.5	2	1.3					
	WATTACEIWI	ACIN 85-115V	Output derating is required a	at ACIN 115V or less (refer to	o instruction manual 3.2)						
	WATTAGE[W]	ACIN 115V-264V	30.0	30.0	30.0	31.2					
	LINE REGULATION[mV] *4		20max	48max	60max	96max					
	LOAD REGULATION[mV] *		40max	100max	120max	150max					
	RIPPLE[mVp-p] *1	0 to +50℃	80max	120max	120max	120max					
		-10 to 0℃	140max	160max	160max	160max					
OUTPUT		0 to +50℃	120max	150max	150max	150max					
	RIPPLE NOISE[mVp-p] *1	-10 to 0℃	160max	180max	180max	180max					
		0 to +50℃	50max	120max	150max	240max					
	TEMPERATURE REGULATION[mV]	-10 to +50℃	60max	ax 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]	4.50 to 5.50	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 rating a	ind 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					
CIRCUIT AND	OPERATING INDICAT	ION	LED (Green)								
DTHERS	REMOTE SENSING		Not provided								
	REMOTE ON/OFF		Not provided	· · · · · · · · · · · · · · · · · · ·							
	INPUT-OUTPUT		AC3,000V 1minute, Cutoff c	urrent = 10mA, DC500V 50N	$M\Omega$ min (At room temperature	e)					
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)								
	OUTPUT-FG		AC500V 1minute, Cutoff cur	rent = 25mA, DC500V 50M	Ω min (At room temperature)						
	OPERATING TEMP., HUMID.AND	ALTITUDE *5	-20 to +70℃, 20 - 90%RH (N	Non condensing), 3,000m (1	0,000 feet) max						
	STORAGE TEMP., HUMID.AND	ALTITUDE	-20 to +75℃, 20 - 90%RH (N	Non condensing), 9,000m (3	0,000 feet) max						
	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3r	ninutes period, 60minutes ea	ach along X, Y and Z axes						
	IMPACT		196.1m/s2 (20G), 11ms, onc	e each X, Y and Z axes							
SAFETY AND	AGENCY APPROVAL	s	UL60950-1, C-UL (CSA6095	50-1), EN62368-1, UL508 (E	xcept option -J) Complies wit	th DEN-AN					
NOISE	CONDUCTED NOISE		Complies with FCC-B, VCCI	-B, CISPR22-B, EN55011-B	, EN55022-B						
REGULATIONS	HARMONIC ATTENU	ATOR *8	Complies with IEC61000-3-2	2 class A							



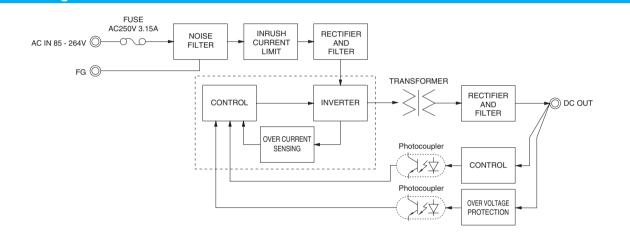
OTHERS	CASE SIZE/WEIGHT	38×80×88mm [1.50×3.15×3.46 i	38×80×88mm [1.50×3.15×3.46 inches] (Excluding terminal block and screw) (W×H×D) / 330g max							
OTHERS	COOLING METHOD	Convection								
WARRANTY	WARRANTY *6	5 years (subject to the operating cor	ditio	ns)						
mm from th Giken RM1	ne output terminals by a 20 MHz oscilloscope	th capacitors of 22 μ F and 0.1 μ F placed at 150 or a ripple-noise meter equivalent to Keisoku-		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.						
*2 Drift is the	change in DC output for an eight hour peri	od after a half-hour warm-up at 25℃.	*	Parallel operation is not possible with this mode.						
*3 As for DC in	nput, consult us for advice.		*	Sound noise may be heard from the power supply when used for pulse load.						
*4 Consult us	about dynamic load and input response.									
*5 Output pow	ver derating is required. See 3.2 in Instruction	Manual.								
*6 See 3.3 in I	Instruction Manual for more details.									

Features

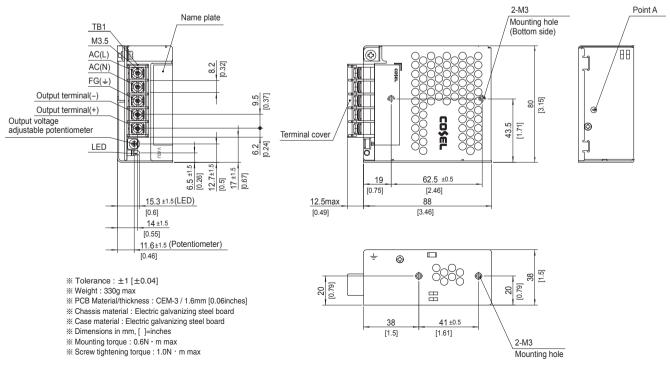
· Compact design (Depth: 88mm 3.46inches)

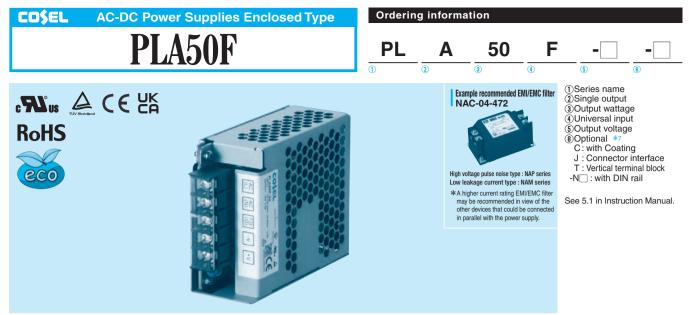
- · UL508 approved (Except option -J), and complies with SEMI F47
- · Various connection interface options (vertical terminal [-T], AMP connector [-J])

Block diagram



External view





	MODEL		PLA50F-5	PLA50F-12	PLA50F-15	PLA50F-24				
	VOLTAGE[V]		AC85 - 264 1 ¢ (Output dera	ating is required at AC85V - 1		ruction Manual) *3				
		ACIN 100V	0.6typ (lo=90%)	0.7typ (lo=90%)		/				
	CURRENT[A]	ACIN 115V	0.6typ (lo=100%)	0.7typ (lo=100%)	0.7typ (lo=100%)					
		ACIN 230V	0.3typ (lo=100%)	0.4typ (lo=100%)						
	FREQUENCY[Hz]		50 / 60 (47 - 63)							
		ACIN 100V	74.5typ (lo=90%)	80.0typ (lo=90%)	80.0typ (Io=90%)	81.5typ (lo=90%)				
	EFFICIENCY[%]	ACIN 115V 75.0typ (lo=100%)		80.5typ (lo=100%)	80.5typ (lo=100%)	82.0typ (lo=100%)				
INPUT		ACIN 230V	76.5typ (lo=100%)	82.0typ (lo=100%)	82.0typ (lo=100%)	84.0typ (lo=100%)				
		ACIN 100V	0.97typ (lo=90%)	0.98typ (lo=90%)						
	POWER FACTOR	ACIN 115V	0.97typ (lo=100%)	0.98typ (lo=100%)						
			0.85typ (lo=100%)	0.87typ (lo=100%)						
		ACIN 230V ACIN 100V	16typ (lo=90%) Ta=25°C at c							
	INRUSH CURRENT[A]	ACIN 115V	16typ (lo=100%) Ta=25℃ at							
		ACIN 230V	32typ (lo=100%) Ta=25℃ at							
	LEAKAGE CURRENT[mA]		, ,	/, 60Hz, lo=100%, According	to IEC62368-1 and DEN-AN	l)				
	VOLTAGE[V]		5	12	15	24				
	CURRENT[A]		8	4.3	3.5	2.2				
		ACIN 85-115V	Output derating is required a	is required at ACIN 115V or less (refer to instruction manual 3.2)						
	WATTAGE[W]	ACIN 115V-264V		51.6	52.5	52.8				
	LINE REGULATION[mV] *4		20max	48max	60max	96max				
	LOAD REGULATION[mV]		40max	100max	120max	150max				
	RIPPLE[mVp-p] *1	0 to +45℃	80max	120max	120max	120max				
		-10 to 0°C	140max	160max	160max	160max				
OUTPUT		0 to +45℃	120max	150max	150max	150max				
	RIPPLE NOISE[mVp-p] *1	-10 to 0°C	160max	180max	180max	180max				
	TEMPERATURE REGULATION[mV]	0 to +45℃	50max	120max	150max	240max				
	TEMPERATURE REGULATION[mv]	-10 to +45℃	60max	150max	180max	290max				
	DRIFT[mV]	*2	20max	48max	60max	96max				
	START-UP TIME[ms]		350typ (ACIN 115V, Io=1009	%)						
	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 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 rating a	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		, ,	urrent = 10mA, DC500V 50M		/				
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff c	urrent = 10mA, DC500V 50N	1Ω min (At room temperature	e)				
	OUTPUT-FG		,	rrent = 25mA, DC500V 50MS						
	OPERATING TEMP., HUMID. AND	ALTITUDE *5	-20 to +70°C, 20 - 90%RH (1	Non condensing), 3,000m (10	0,000 feet) max					
ENVIRONMENT	STORAGE TEMP., HUMID.AND	ALTITUDE	-20 to +75°C, 20 - 90%RH (1	Non condensing), 9,000m (30	0,000 feet) max					
	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3r	minutes period, 60minutes ea	ach along X, Y and Z axes					
	IMPACT		196.1m/s2 (20G), 11ms, onc	e each X, Y and Z axes						
SAFETY AND	AGENCY APPROVAL	S	UL60950-1, C-UL (CSA6095	50-1), EN62368-1, UL508 (E	xcept option -J) Complies wit	th DEN-AN				
NOISE	CONDUCTED NOISE		Complies with FCC-B, VCCI	-B, CISPR22-B, EN55011-B,	, EN55022-B					
REGULATIONS	HARMONIC ATTENU	ATOR *8	Complies with IEC61000-3-2	2 class A						



OTHERS	CASE SIZE/WEIGHT	38×80×99mm [1.50×3.15×3.90 i	38×80×99mm [1.50×3.15×3.90 inches] (Excluding terminal block and screw) (W×H×D) / 400g max							
DIRERS	COOLING METHOD	Convection								
WARRANTY WARRANTY * 5 years (subject to the operating conditions)										
mm from th Giken RM1	ne output terminals by a 20 MHz oscilloscope	th capacitors of 22 µ F and 0.1 µ F placed at 150 or a ripple-noise meter equivalent to Keisoku-		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.						
*2 Drift is the	change in DC output for an eight hour peri	od after a half-hour warm-up at 25℃.	*	Parallel operation is not possible with this mode.						
*3 As for DC in	nput, consult us for advice.		*	Sound noise may be heard from the power supply when used for pulse load.						
*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.

Features

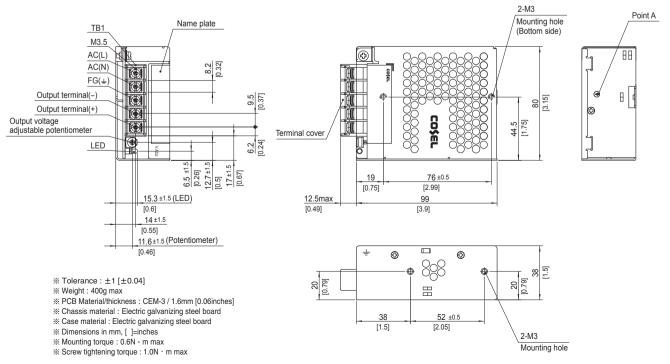
· Compact design (Depth: 99mm 3.90inches)

· UL508 approved (Except option -J), and complies with SEMI F47

· Various connection interface options (vertical terminal [-T], AMP connector [-J])

Block diagram FUSE AC250V 2.5A INRUSH NOISE CURRENT AC IN 85 - 264V 🔘 0 RECTIFIER FILTER LIMIT FG 🔘 1 TRANSFORMER BOOSTER CURRENT INDUCTOR RECTIFIER SENSING CONTROL INVERTER) DC OUT RECTIFIER FILTER AND Photocoupler OVER CURRENT SENSING INVERTER CONTROL Photocouple OVER VOLTAGE ŹŻ CONTROL PROTECTION

External view





	MODEL		PLA100F-12	PLA100F-15	PLA100F-24	PLA100F-36	PLA100F-48					
	VOLTAGE[V]											
	ACIN 100V		AC85 - 264 1 ϕ (Output derating is required at AC85V - 115V. See 1.1 and 3.2 in Instruction Manual) *3 1.2typ (Io=90%)									
	CURRENT[A]	ACIN 115V	1.2typ (lo=90%) 1.1typ (lo=100%)									
		ACIN 230V	0.6typ (lo=100%)									
	FREQUENCY[Hz]	70111 2001	50 / 60 (47 - 63)									
		ACIN 100V	82typ (lo=90%)	83typ (Io=90%)	85typ (lo=90%)	86typ (Io=90%)	86typ (Io=90%)					
	EFFICIENCY[%]	ACIN 115V	82typ (lo=100%)	83typ (lo=100%)	85typ (lo=100%)	86typ (lo=100%)	86typ (lo=100%)					
NPUT		ACIN 230V	85typ (lo=100%)	86typ (lo=100%)	88typ (lo=100%)	89typ (lo=100%)	89typ (lo=100%)					
		ACIN 100V	0.98typ (Io=90%)	00typ (10=10070)	000000 (10=10070)	00typ (10=10070)	00typ (10=10070)					
	POWER FACTOR	ACIN 115V	0.98typ (lo=100%)									
	I OWENTAOTON	ACIN 230V	, ,	98typ (Io=100%) 95typ (Io=100%) * Power factor correction is stopped at AC250V or more.								
		ACIN 230V	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	typ (lo=90%) Ta=25°C at cold start								
		ACIN 100V ACIN 115V	16typ (lo=100%) Ta=25									
	INRUSH CURRENT[A]	ACIN 115V ACIN 230V	32typ (lo=100%) Ta=2									
		1	,		According to IEC60269							
	LEAKAGE CURRENT	[IIIA]	0.75max (ACIN 115V /	15	, According to IEC62368	36	48					
	VOLIAGE[V]						40					
	CURRENT[A]	ACIN 85-115V ACIN 115V-264V		6.7	ess (refer to instruction 4.3	2.8	2.1					
					-		2.1					
	WATTAGE[W]			1	ess (refer to instruction	,						
		ACIN 115V-264V		100.5	103.2	100.8	100.8					
	LINE REGULATION[n		48max	60max	96max	144max	192max					
	LOAD REGULATION			120max	150max	150max	300max					
	[mV] *4		Burst operation (Please	1	· ·							
	RIPPLE[mVp-p]		120max	120max	120max	150max	150max					
	*1		160max	160max	160max	200max	400max					
OUTPUT	lo: load factor			500max	500max	500max	500max					
	RIPPLE NOISE[mVp-p]	0 to +40℃	150max	150max	150max	200max	200max					
	*1	-10 to 0℃		180max	180max	240max	500max					
	lo: load factor	lo=0 to 30%	600max	600max	600max	600max	600max					
	TEMPERATURE REGULATION[mV]		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, lo	=100%) Ta=25℃								
	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	ING[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					
	OVERCURRENT PROTE	CTION	Works over 105% of ra	ting and recovers auto	matically							
PROTECTION	OVERVOLTAGE PROTE	CTION[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					
CIRCUIT AND	OPERATING INDICAT	ION	LED (Green)									
DTHERS	REMOTE SENSING		Not provided									
	REMOTE ON/OFF		Optional (Required ext	ernal power source. O	otion -R)							
	INPUT-OUTPUT • RC	*9	AC3,000V 1minute, Cu	utoff current = 10mA, D	C500V 50M Ω min (At r	oom temperature)						
	INPUT-FG		AC2,000V 1minute, Cu	utoff current = 10mA, D	C500V 50MΩ min (At r	oom temperature)						
SOLATION	OUTPUT · RC-FG	*9	AC500V 1minute, Cuto	off current = 100mA, D	C500V 50M Ω min (At ro	oom temperature)						
	OUTPUT-RC	*9	AC500V 1minute, Cuto	off current = 100mA, D	C500V 50M Ω min (At ro	oom temperature)						
	OPERATING TEMP., HUMID.AND	ALTITUDE *5	-20 to +70°C (Output d	erating is required), 20	- 90%RH (Non conden	sing), 3,000m (10,000 fee	et) max					
	STORAGE TEMP., HUMID.AND				9,000m (30,000 feet) m							
INVIRONMENT	VIBRATION				Ominutes each along X,							
	IMPACT	-	196.1m/s ² (20G), 11ms		. .							
	AGENCY APPROVAL	s				-J) Complies with DEN-A	AN					
SAFETY AND	AGENCIAFFROVAL		JL60950-1, C-UL (CSA60950-1), EN62368-1, UL508 (Except option -J) Complies with DEN-AN									
SAFETY AND NOISE	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B									

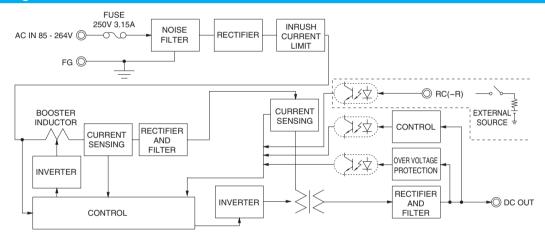


OTHERS	CASE SIZE/WEIGHT	41×97×109mm [1.61×3.82×4.29 inches] (Excluding terminal block and screw) (W×H×D) / 500g max					
UTTERS	COOLING METHOD Convection						
WARRANTY	WARRANTY *6	5 years (subject to the operating conditions)					
capacitors output term equivalent See 1.6 of When the reduced by noise to go	result of measurement of the testing board wi of 22 µ F and 0.1 µ F placed at 150 mm from i ninals by a 20 MHz oscilloscope or a ripple-no to Keisoku-Giken RM103. Instruction Manual for more details. load factor is 0 - 30%, the switching power y burst operation, which will cause ripple ar o beyond the specifications.	 *3 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. * Parallel operation is not possible with this mode. * Soutput us about safety agency approvals for the models with optional functions. 	or in unspecified nts may be				

Features

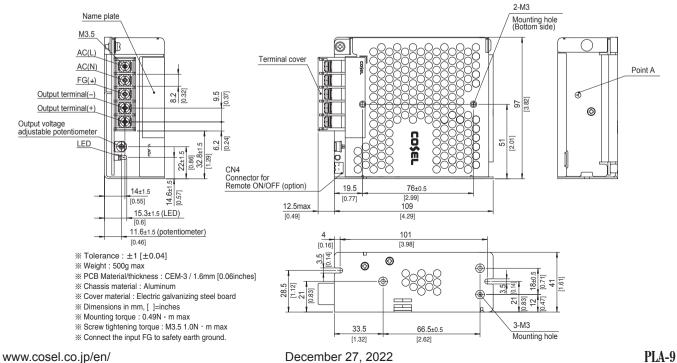
- · Compact design (Depth: 109mm 4.29inches)
- · High efficiency (88%typ PLA100F-24, AC230Vin, 100% load)
- · Low power consumption (1.5W typ AC240Vin, no load at standard model)
- · UL508 approved (Except option -J), and complies with SEMI F47 (see instruction manual 1.1)
- · Various connection interface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

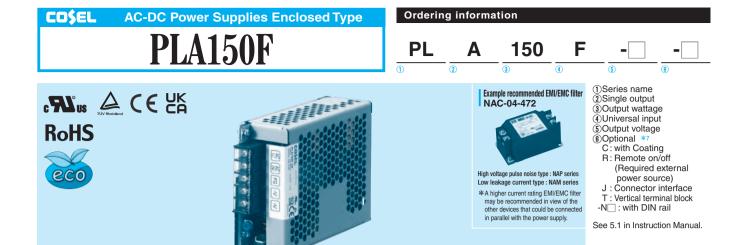
Block diagram



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.





	MODEL		PLA150F-12	PLA150F-15	PLA150F-24	PLA150F-36	PLA150F-48				
	VOLTAGE[V]		AC85 - 264 1 φ (Out	out derating is required	at AC85V - 115V. See 1.	1 and 3.2 in Instruction M	(anual) *3				
	ACIN 100V		AC85 - 264 1 ϕ (Output derating is required at AC85V - 115V. See 1.1 and 3.2 in Instruction Manual) *3 1.7typ (Io=90%)								
	CURRENT[A] ACIN 115V ACIN 230V		1.6typ (lo=100%)								
			0.8typ (lo=100%)								
	FREQUENCY[Hz]	1	50 / 60 (47 - 63)								
		ACIN 100V	84typ (lo=90%)	84typ (lo=90%)	87typ (lo=90%)	87typ (lo=90%)	87typ (lo=90%)				
	EFFICIENCY[%]	ACIN 115V	84typ (lo=100%)	84typ (lo=100%)	87typ (lo=100%)	87typ (lo=100%)	87typ (lo=100%)				
INPUT		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	, , ,	Power factor correction	is stopped at AC250V o	or more.					
		ACIN 100V	16typ (lo=90%) Ta=2		F F						
	INRUSH CURRENT[A]	ACIN 115V		yp (lo=100%) Ta=25℃ at cold start							
		ACIN 230V	32typ (lo=100%) Ta=								
	LEAKAGE CURRENT				, According to IEC62368	3-1 and DEN-AN)					
	VOLTAGE[V]		12	15	24	36	48				
		ACIN 85-115V		-	less (refer to instruction						
	CURRENT[A]	ACIN 115V-264V	12.5	10	6.4	4.2	3.2				
		ACIN 85-115V	-		less (refer to instruction						
	WATTAGE[W]	ACIN 115V-264V	150.0	150.0	153.6	151.2	153.6				
	LINE REGULATION[n		48max	60max	96max	144max	192max				
	LOAD REGULATION		100max	120max	150max	150max	300max				
	[mV] *4			ise contact us about de		Toomax	ocomax				
	RIPPLE[mVp-p] *1	0 to +40°C		120max	120max	150max	150max				
		-10 to 0°C		160max	160max	200max	400max				
OUTPUT				500max	500max	500max	500max				
	RIPPLE NOISE[mVp-p]		150max	150max	150max	200max	200max				
	*1	-10 to 0°C		180max	180max	240max	500max				
	lo: load factor		600max	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]	*2	48max	60max	96max	144max	192max				
	START-UP TIME[ms]		500typ (ACIN 115V, I		oomax	TTIMAX	TOLINGX				
	HOLD-UP TIME[ms]		20typ (ACIN 115V, Ic								
	OUTPUT VOLTAGE ADJUSTMEN	T RANGEIVI	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			rating and recovers auto		00.00 10 07.111	10.00 10 10.02				
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				
CIRCUIT AND	OPERATING INDICAT		LED (Green)	17.20 10 21.00	27.00 10 00.00	11.10 10 00.10	01.001007.20				
OTHERS	REMOTE SENSING		Not provided								
	REMOTE ON/OFF		1	xternal power source. C	ntion -B)						
	INPUT-OUTPUT • RC	*9			0C500V 50MΩ min (At r	oom temperature)					
	INPUT-FG				$0C500V 50M\Omega$ min (At r	, ,					
SOLATION	OUTPUT • RC-FG	*9			C500V 50M Ω min (At r	, , ,					
	OUTPUT-RC	*9			C500V 50M Ω min (At ro						
	OPERATING TEMP., HUMID.AND					sing), 3,000m (10,000 fe	et) max				
	STORAGE TEMP.,HUMID.AND				, 9,000m (30,000 feet) m		ory max				
ENVIRONMENT	VIBRATION	ALINUUL	· · · · · ·		Ominutes each along X,						
	IMPACT			ns, once each X, Y and		1 UNU Z UNUO					
	AGENCY APPROVAL	\$				-J) Complies with DEN-A					
SAFETY AND NOISE	CONDUCTED NOISE	0			EN55011-B, EN55022-B		11.1				
	1 COMPOSIED NOISE			, vooi-d, olor nzz-d,	LINGGUTTED, EINGGUZZED						

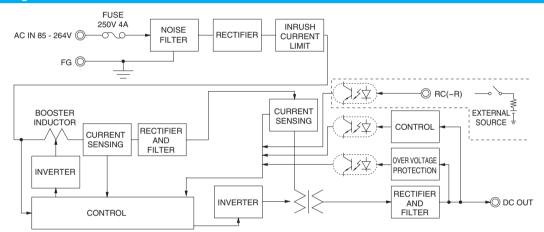


OTUEDO	CASE SIZE/WEIGHT	41×97×	129mm [1.61 × 3.82 × 5.08 inches] (Excluding terminal b	lock a	nd screw) (W×H×D) / 600g max					
OTHERS	COOLING METHOD	Convecti	Convection							
WARRANTY	WARRANTY *6	5 years (subject to the operating conditions)							
*1 This is the r	result of measurement of the testing board with o	capacitors of	hour warm-up at 25°C.	*9	The RC terminal is added to option -R models. The RC terminal					
22 µ F and	0.1 µ F placed at 150 mm from the output termin	nals by a 20	*3 As for DC input, consult us for advice.		is isolated from input, output, and FG.					
MHz oscillo	scope or a ripple-noise meter equivalent to Keis	oku-Giken	*4 Consult us about dynamic load and input response. Measure the output	*	Do not use the power supply in overcurrent conditions or in unspecified					
RM103.			voltage by using the average mode of the tester to deal with the burst		input voltage ranges. Otherwise the internal components may be					
See 1.6 of I	Instruction Manual for more details.		operation at 30% load or less.		damaged.					
When the lo	bad factor is 0 - 30%, the switching power loss is	reduced by	*5 Output power derating is required. See 3.2 in Instruction Manual.	*	Parallel operation is not possible with this mode.					
burst opera	tion, which will cause ripple and ripple noise to g	jo beyond	*6 See 3.3 in Instruction Manual for more details.	*	Sound noise may be heard from the power supply when used for					
the specific	ations.		*7 Consult us about safety agency approvals for the models with optional functions	i.	pulse load.					
*2 Drift is the	change in DC output for an eight hour period a	fter a half-	*8 Consult us about other classes.							

Features

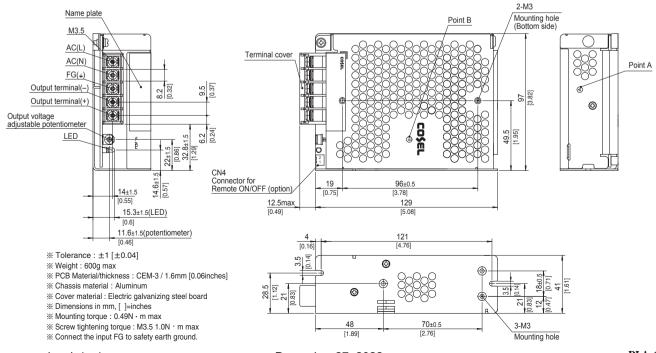
- · Compact design (Depth: 129mm 5.08inches)
- · High efficiency (90%typ PLA150F-24, AC230Vin, 100% load)
- · Low power consumption (1.5W typ AC240Vin, no load at standard model)
- · UL508 approved (Except option -J), and complies with SEMI F47 (see instruction manual 1.1)
- · Various connection interface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

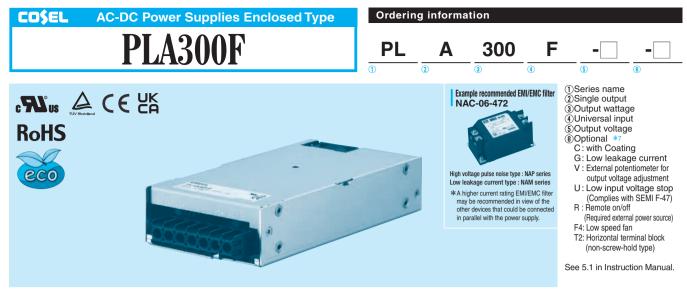
Block diagram



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.





	MODEL		PLA300F-5	PLA300F-12	PLA300F-15	PLA300F-24	PLA300F-36	PLA300F-48		
	VOLTAGE[V]		AC85 - 264 1 φ (O	utput derating is req	uired at AC85V - 115	V. See 1.1 and 3.2 ir	n Instruction Manual) *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)							
		ACIN 100V	73typ (lo=90%)	78typ (lo=90%)	79typ (lo=90%)	81typ (lo=90%)	81typ (lo=90%)	82typ (lo=90%)		
	EFFICIENCY[%]	ACIN 115V	74typ (lo=100%)	78typ (lo=100%)	80typ (lo=100%)	82typ (lo=100%)	82typ (lo=100%)	83typ (lo=100%		
VPUT		ACIN 230V	77typ (lo=100%)	81typ (lo=100%)	83typ (lo=100%)	86typ (lo=100%)	86typ (lo=100%)	86typ (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℃ at cold start						
	INRUSH CURRENT[A]	ACIN 115V	20typ (lo=100%) Ta	a=25°C at cold start						
		ACIN 230V	40typ (lo=100%) Ta	a=25℃ at cold start						
	LEAKAGE CURRENT	[mA]	0.75max (ACIN 11	5V / 240V, 60Hz, lo=	100%, According to	IEC62368-1 and DE	N-AN)			
	VOLTAGE[V]		5	12	15	24	36	48		
		ACIN 85-115V	Output derating is	required 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		
	WATTACEIMI	ACIN 85-115V	Output derating is	required at ACIN 11	5V or less (refer to in	struction manual 3.2)			
	WATTAGE[W]	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		
UTPUT		-10 to 0°C	140max	160max	160max	160max	160max	400max		
01901	RIPPLE NOISE[mVp-p] *1	0 to +50℃	120max	150max	150max	150max	200max	200max		
		-10 to 0°C	160max	180max	180max	180max	240max	500max		
	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	120max	150max	240max	360max	480max		
	TEMPERATORE REGULATION[mv]	-10 to +50℃	75max	180max	180max	290max	440max	600max		
	DRIFT[mV]	*2	20max	48max	60max	96max	144max	192max		
	START-UP TIME[ms]		300typ (ACIN 115\	/, lo=100%)						
	HOLD-UP TIME[ms]		20typ (ACIN 115V,	lo=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	32.40 to 39.60	43.20 to 52.80		
	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	36.00 to 37.44	48.00 to 49.92		
	OVERCURRENT PROTE	CTION	Works over 105% of	of rating and recover	s 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	41.40 to 50.40	55.20 to 67.20		
IRCUIT AND	OPERATING INDICAT	ION	LED (Green)							
THERS	REMOTE SENSING		Not provided							
	REMOTE ON/OFF		Optional (Required external power source. Option -R)							
	INPUT-OUTPUT • RC	*10	AC3,000V 1minute	, Cutoff current = 10	mA, DC500V 50M Ω	min (At room tempe	erature)			
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At room temperature)							
DULATION	OUTPUT • RC-FG	*10	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At room temperature)							
	OUTPUT-RC	*10	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature)							
	OPERATING TEMP., HUMID. AND	ALTITUDE *5	-20 to +70℃ (Outp	ut derating is require	ed), 20 - 90%RH (No	n condensing), 3,000	0m (10,000 feet) ma	x		
NVIRONMENT	STORAGE TEMP., HUMID.AND	ALTITUDE	-20 to +75°C, 20 - 9	0%RH (Non conder	nsing), 9,000m (30,0	00 feet) max				
	VIBRATION		10 - 55Hz, 19.6m/s	² (2G), 3minutes per	riod, 60minutes each	along X, Y and Z ax	es			
	IMPACT		196.1m/s² (20G), 1	1ms, once each X, Y	' and Z axes					
AFETY AND	AGENCY APPROVAL	s	UL60950-1, C-UL	CSA60950-1), EN62	2368-1 Complies with	n DEN-AN				
OISE	CONDUCTED NOISE		Complies with FCC	-B, VCCI-B, CISPR	22-B, EN55011-B, El	N55022-B				
EGULATIONS	HARMONIC ATTENU			61000-3-2 class A						

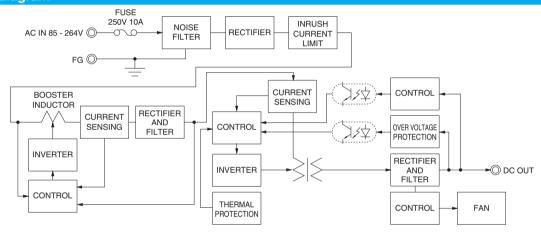


OTHERS	CASE SIZE/WEIGHT	102×41	×190mm [4.02×1.61×7.48 inches] (Excluding terminal bl	ock	and screw) (W×H×D) / 1.0kg max					
UTHENS	COOLING METHOD *8	Forced c	orced cooling (internal fan)							
WARRANTY	WARRANTY *6	5 years (subject to the operating conditions)							
22 µ F and 0 MHz oscillo RM103. See 1.6 of I *2 Drift is the o warm-up at	esult of measurement of the testing board with c 1.1 µ F placed at 150 mm from the output termini scope or a ripple-noise meter equivalent to Keisc nstruction Manual for more details. hange in DC output for an eight hour period after 25 C. er derating is required. As for DC input, consult u	r a half-hour	 *4 Consult us about dynamic load and input response. *5 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

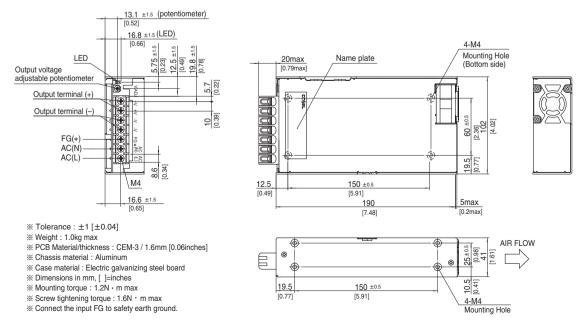
- · Cost-effective
- · Longer life (see Instruction Manual)
- · Low profile (meets 1U height = 41 mm or 1.61 inches)
- · Wide operating temperature range (-20°C to +70°C see instruction manual)
- · Screw hold type terminal block
- · Slow fan speed at no load
- · Many optional functions
- · Complies with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

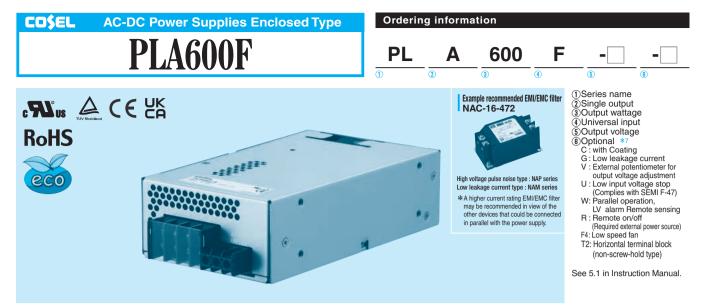
Block diagram



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.





*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations. *Please consider "PJA600F-5" about 5V output.

M	IODEL		PLA600F-12	PLA600F-15	PLA600F-24	PLA600F-36	PLA600F-48	
v	VOLTAGE[V]		AC85 - 264 1 ¢ (Outp	ut derating is required a	at AC85V - 115V. See 1.	1 and 3.2 in Instruction N	/lanual) *4	
		ACIN 100V	6.7typ (lo=90%)					
c	URRENT[A]	ACIN 115V						
		ACIN 230V						
F	FREQUENCY[Hz]		50 / 60 (47 - 63)					
	ACIN 100V		81typ (lo=90%)	81typ (Io=90%)	84typ (lo=90%)	85typ (lo=90%)	85typ (lo=90%)	
E	EFFICIENCY[%]	ACIN 115V	81typ (lo=100%)	81typ (lo=100%)	84typ (lo=100%)	85typ (lo=100%)	85typ (lo=100%)	
		ACIN 230V	84typ (lo=100%)	84typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)	
		ACIN 100V	0.98typ (lo=90%)					
Р	POWER FACTOR	ACIN 115V						
		ACIN 230V						
-		ACIN 100V						
IN	RUSH CURRENT[A]	ACIN 115V						
		ACIN 230V						
			1.5max (ACIN 115V / 240V, 60Hz, Io=100%, According to IEC62368-1 and DEN-AN)					
	VOLTAGE[V]		12	15	24	36	48	
V	<u> </u>				ess (refer to instruction i		40	
С	CURRENT[A] WATTAGE[W]	ACIN 85-115V ACIN 115V-264V	50	40	25	16.7	12.5	
-		ACIN 115V-204V ACIN 85-115V			ess (refer to instruction i		12.0	
W			600	600	600	601.2	600	
			48max	60max	96max	144max	192max	
	LINE REGULATION[mV] *8 LOAD REGULATION[mV] *8			-				
			100max	120max	150max	150max	300max	
R	RIPPLE[mVp-p]	0 to +50°C	120max	120max	120max	150max	150max	
ОЛТЬЛТ –	*1 RIPPLE NOISE[mVp-p] *1	-20 to 0°C	160max	160max	160max	160max	400max	
R		0 to +50℃	150max	150max	150max	200max	200max	
		-20 to 0°C	180max	180max	180max	240max	500max	
TE	TEMPERATURE REGULATION[mV]	0 to +50℃	120max	150max	240max	360max	480max	
_		-20 to +50℃	180max	180max	290max	440max	600max	
	DRIFT[mV] *2		48max	60max	96max	144max	192max	
	START-UP TIME[ms]		300typ (ACIN 115V, Io=100%)					
	HOLD-UP TIME[ms]		20typ (ACIN 115V, Io=	· · · ·				
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]			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	
	OVERCURRENT PROTECTION			ating and recovers auto	-			
	OVERVOLTAGE PROTECTION[V]		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)					
II	INPUT-OUTPUT • RC *3		······································					
SOLATION -	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)					
0	OUTPUT • RC-FG *3		······································					
0	OUTPUT-RC *3		AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At room temperature)					
OF	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/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axes					
IN	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axes					
SAFETY AND A	AGENCY APPROVALS		UL60950-1, C-UL (CSA60950-1), EN62368-1 Complies with DEN-AN					
	ONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B					
REGULATIONS								



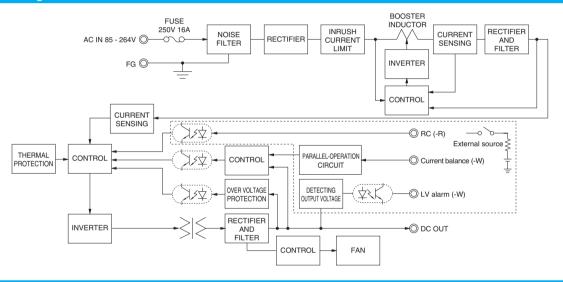
CASE SIZE/WEIGHT	120×61×215mm [4.72×2.40×8.46 inches] (Excluding terminal block and screw) (W×H×D) / 2.0kg max						
COOLING METHOD *9	prced cooling (internal fan)						
WARRANTY WARRANTY *6	*6 5 years (subject to the operating conditions)						
 *1 This is the result of measurement of the testing board with ci 22 µ F and 0.1 µ F placed at 150 mm from the output termini. MHz oscilloscope or a ripple-noise meter equivalent to Keisc RM103. See 1.6 of Instruction Manual for more details. *2 Drift is the change in DC output for an eight hour period after warm-up at 25°C. 	als by a 20 isolated from input, output, and FG. \$10 Consult us about other classe xku-Giken *4 As for DC input, consult us for advice. * Do not use the power supply in classe *5 Output power derating is required. See 3.2 in Instruction Manual. input voltage ranges. Otherwise the prevailed operation is allowed for F *6 See 3.3 in Instruction Manual for more details. * Parallel operation is allowed for F						

· 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)

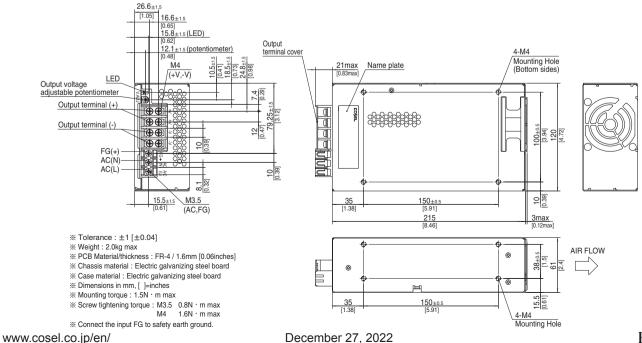
Block diagram

- · Screw hold type terminal block
- \cdot Slow fan speed at no load
- · Many optional functions
- Complies with SEMI F-47 (-U option, see Instruction Manual for details)



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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