

	MODEL		* Please consider "Pl PJA100F-12	PJA100F-15	PJA100F-24	PJA100F-36	PJA100F-48			
	VOLTAGE[V]	10111 1001/	AC85 - 264 1 ¢ (Output derating is required at AC85V - 115V. See 1.1 and 3.2 in Instruction Manual)							
		ACIN 100V	1.2typ (lo=90%)							
	CURRENT[A]	ACIN 115V	1.1typ (lo=100%)							
	EDEOUENOV////	ACIN 230V	0.6typ (lo=100%)							
	FREQUENCY[Hz]		50 / 60 (47 - 63)							
	EFFICIENCY[%]	ACIN 100V	82typ (lo=90%)	83typ (lo=90%)	85typ (lo=90%)	86typ (lo=90%)	86typ (lo=90%)			
		ACIN 115V	82typ (lo=100%)	83typ (lo=100%)	85typ (lo=100%)	86typ (lo=100%)	86typ (lo=100%)			
INPUT		ACIN 230V	85typ (lo=100%)	86typ (lo=100%)	88typ (lo=100%)	89typ (lo=100%)	89typ (lo=100%)			
	POWER FACTOR	ACIN 100V	0.98typ (lo=90%)							
		ACIN 115V	0.98typ (lo=100%)							
		ACIN 230V	, ,	Power factor correction	n is stopped at AC250V	or more.				
		ACIN 100V	16typ (lo=90%) Ta=2							
	INRUSH CURRENT[A]	ACIN 115V	16typ (lo=100%) Ta=							
		ACIN 230V	32typ (lo=100%) Ta=							
	LEAKAGE CURRENT	[mA]		V, 60Hz, Io=100%, Accor						
	VOLTAGE[V]		12	15	24	36	48			
	CURRENT[A]	ACIN 85-115V		quired at ACIN 115V or						
		ACIN 115V-264V	8.4	6.7	4.3	2.8	2.1			
	WATTAGE[W]	ACIN 85-115V	Output derating is re	quired 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[n	ιV] *3	48max	60max	96max	144max	192max			
	LOAD REGULATION	lo=30 to 100%	100max	120max	150max	150max	300max			
	[mV] *3	lo=0 to 30%	Burst operation (Plea	ase contact us about det	ail)					
	RIPPLE[mVp-p]	0 to +40℃	120max	120max	120max	150max	150max			
	*1	-10 to 0°C	160max	160max	160max	200max	400max			
OUTPUT	lo: load factor	lo=0 to 30%	500max	500max	500max	500max	500max			
	RIPPLE NOISE[mVp-p]	0 to +40℃	150max	150max	150max	200max	200max			
	*1	-10 to 0℃	180max	180max	180max	240max	500max			
	lo: load factor	lo=0 to 30%	600max	600max	600max	600max	600max			
		0 to +40℃	120max	150max	240max	360max	480max			
	TEMPERATURE REGULATION[mV]	-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, Id	p=100%)						
	OUTPUT VOLTAGE ADJUSTMEN	T RANGE[V]	21.1	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		Works over 105% of	rating and recovers auto	omatically	· · ·				
ROTECTION	OVERVOLTAGE PROTE		13.80 to 16.80	17.25 to 21.00	27.60 to 33.60	41.40 to 50.40	54.00 to 67.20			
IRCUIT AND	OPERATING INDICAT		LED (Green)	1	1					
THERS	REMOTE SENSING		Not provided							
	REMOTE ON/OFF			external power source. O	ption -R)					
	INPUT-OUTPUT • RC	*8	1 1	Cutoff current = 10mA, E	,	oom temperature)				
	INPUT-FG			Cutoff current = 10mA, E		. ,				
SOLATION	OUTPUT • RC-FG	*8	, ,	utoff current = 100mA, D	(1 /				
	OUTPUT-RC		,	utoff current = 100mA, D	· · · · ·	/				
	OPERATING TEMP., HUMID.AND					sing), 3,000m (10,000 fe	et) max			
	STORAGE TEMP.,HUMID.AND			%RH (Non condensing)						
NVIRONMENT	VIBRATION			(2G), 3minutes period, 6						
	IMPACT	-	,	ms, once each X, Y and	0 ,					
	AGENCY APPROVAL	\$				- L - I1) Complies with D	EN-AN			
SAFETY AND	CONDUCTED NOISE	5								
NOISE				UL62368-1, C-UL (CSA62368-1), EN62368-1, UL508 (Except option -J, -J1) Complies with DEN-AN Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B						

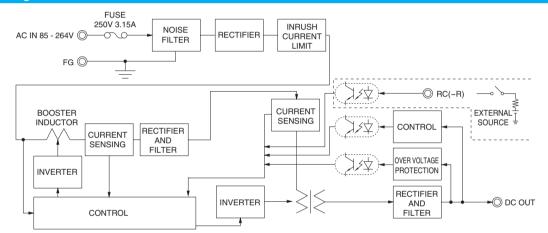


OTHERS	CASE SIZE/WEIGHT	41×97×109mm [1.61×3.82×4.29 inches] (Excluding terminal block and screw) (W×H×D) / 500g max							
UTHENS	COOLING METHOD	Convection							
WARRANTY	WARRANTY *5	5 5 years (subject to the operating conditions)							
capacitors output term equivalent See 1.6 of When the reduced by noise to go	result of measurement of the testing board wi of 22 µF and 0.1 µF placed at 150 mm from 1 inals 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 b beyond the specifications. change in DC output for an eight hour period al	n the *3 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. * Do not use the power supply in overcurrent conditions or in unspecifie input voltage ranges. Otherwise the internal components may be damaged. * 4 Output power derating is required. See 3.2 in Instruction Manual. * Parallel operation is not possible with this mode. * 1 See 3.3 in Instruction Manual for more details. * Sound noise may be heard from the power supply when used for pulse load. * 6 Consult us about dately agency approvals for the models with optional functions. * Sound noise may be heard from the power supply when used for pulse load.							

Features

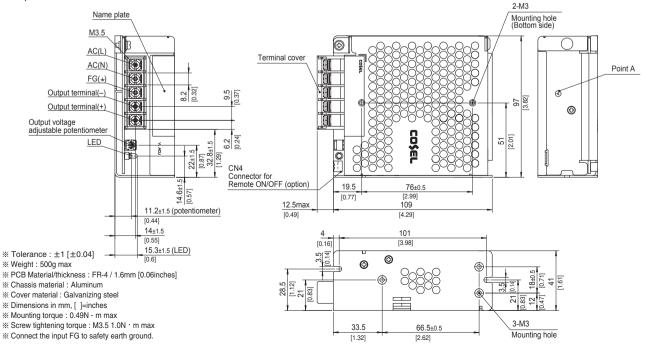
- · Compact design (Depth: 109mm 4.29inches)
- · High efficiency (88%typ PJA100F-24, AC230Vin, 100% load)
- · Low power consumption (1.5W typ AC240Vin, no load at standard model)
- · UL508 approved (Except option -J, -J1), and complies with SEMI F47 (see instruction manual 1.1)
- · Various connection interface options (vertical terminal [-T], AMP connector [-J], [-J1])

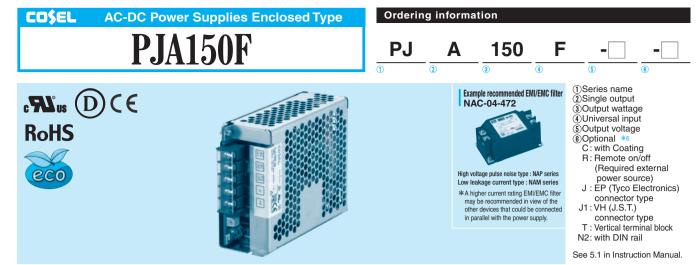
Block diagram



External view

The external size of –R option, –J option, –J1 option, –N2 option and –T option models is different from the standard model. See "5. Options and Others" in Instruction Manual for more details.





	MODEL		PJA150F-12	PJA150F-15	PJA150F-24	PJA150F-36	PJA150F-48			
,	VOLTAGE[V]		AC85 - 264 1 ¢ (Out	put derating is required	at AC85V - 115V. See 1.	1 and 3.2 in Instruction M	lanual)			
		ACIN 100V	1.7typ (lo=90%)							
	CURRENT[A]	ACIN 115V	1.6typ (lo=100%)							
		ACIN 230V	0.8typ (lo=100%)							
	FREQUENCY[Hz]		50 / 60 (47 - 63)							
F		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%)			
NPUT		ACIN 230V	87typ (lo=100%)	87typ (lo=100%)	90typ (lo=100%)	90typ (lo=100%)	90typ (lo=100%)			
		ACIN 100V	0.98typ (lo=90%)				,			
	POWER FACTOR	ACIN 115V	0.98typ (lo=100%)							
		ACIN 230V	0.93typ (lo=100%) *	 Power factor correction 	is stopped at AC250V	or more.				
F		ACIN 100V	16typ (lo=90%) Ta=2	25℃ at cold start						
	INRUSH CURRENT[A]	ACIN 115V	16typ (lo=100%) Ta=	=25℃ at cold start						
		ACIN 230V	32typ (lo=100%) Ta=25°C at cold start							
	LEAKAGE CURRENT	[mA]	0.75max (ACIN 240)	/, 60Hz, lo=100%, Accor	ding to IEC62368-1 and	DEN-AN)				
1	VOLTAGE[V]		12	15	24	36	48			
		ACIN 85-115V	Output derating is re	quired at ACIN 115V or	less (refer to instruction	manual 3.2)				
1	CURRENT[A]	ACIN 115V-264V	12.5	10	6.4	4.2	3.2			
L.		ACIN 85-115V	Output derating is re	quired at ACIN 115V or	less (refer to instruction	manual 3.2)				
	WATTAGE[W]	ACIN 115V-264V	150.0	150.0	153.6	151.2	153.6			
	LINE REGULATION[m	iV] *3	48max	60max	96max	144max	192max			
	LOAD REGULATION	- lo=30 to 100%	100max	120max	150max	150max	300max			
	[mV] *3			ase contact us about det	ail)	I	1			
F	RIPPLE[mVp-p]	0 to +40℃		120max		150max	150max			
	*1 *1	-10 to 0℃	160max	160max	160max	200max	400max			
DUTPUT	lo: load factor	lo=0 to 30%	500max	500max	500max	500max	500max			
L. L.	RIPPLE NOISE[mVp-p]	0 to +40℃	150max	150max	150max	200max	200max			
	*1	-10 to 0℃	180max	180max	180max	240max	500max			
	lo: load factor	lo=0 to 30%	600max	600max	600max	600max	600max			
E.		0 to +40℃	120max	150max	240max	360max	480max			
1	TEMPERATURE REGULATION[mV]	-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℃						
H	HOLD-UP TIME[ms]		20typ (ACIN 115V, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMEN	T 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	NG[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	rating and recovers auto	matically					
	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			
	OPERATING INDICAT		LED (Green)			· · ·				
DTHERS	REMOTE SENSING		Not provided							
	REMOTE ON/OFF		Optional (Required e	external power source. O	ption -R)					
	INPUT-OUTPUT • RC	*8	AC3,000V 1minute,	Cutoff current = 10mA, E	C500V 50M Ω min (At r	oom temperature)				
	INPUT-FG		AC2,000V 1minute,	Cutoff current = 10mA, E	C500V 50M Ω min (At r	oom temperature)				
SOLATION	OUTPUT • RC-FG	*8	AC500V 1minute, C	utoff current = 100mA, D	C500V 50M Ω min (At re	oom temperature)				
-	OUTPUT-RC	*8	AC500V 1minute, C	utoff current = 100mA, D	C500V 50M Ω min (At re	oom temperature)				
	OPERATING TEMP., HUMID. AND		-20 to +70°C (Output	derating is required), 20) - 90%RH (Non conden	sing), 3,000m (10,000 fe	et) max			
	STORAGE TEMP., HUMID. AND	ALTITUDE	-20 to +75°C, 20 - 90	%RH (Non condensing)	, 9,000m (30,000 feet) n	nax				
	VIBRATION			(2G), 3minutes period, 6						
L L	IMPACT		196.1m/s2 (20G), 11	ms, once each X, Y and	Z axes					
	AGENCY APPROVAL	s				-J, -J1) Complies with D	EN-AN			
· –	CONDUCTED NOISE			B, VCCI-B, CISPR22-B,						
REGULATIONS	HARMONIC ATTENUA		Complies with IEC6							

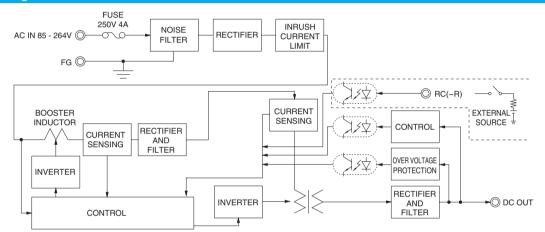


OTHERS	CASE SIZE/WEIGHT	41×97>	41×97×129mm [1.61×3.82×5.08 inches] (Excluding terminal block and screw) (W×H×D) / 600g max							
UTHENS	COOLING METHOD	Convecti	n							
WARRANTY	WARRANTY *5	5 years (ubject to the operating conditions)							
*1 This is the r	result of measurement of the testing board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

Features

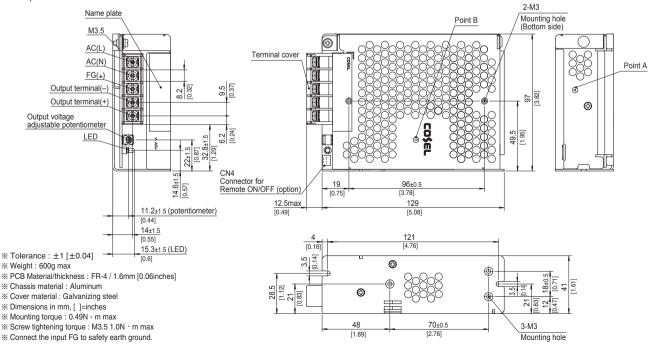
- · Compact design (Depth: 129mm 5.08inches)
- · High efficiency (90%typ PJA150F-24, AC230Vin, 100% load)
- · Low power consumption (1.5W typ AC240Vin, no load at standard model)
- · UL508 approved (Except option -J, -J1), and complies with SEMI F47 (see instruction manual 1.1)
- · Various connection interface options (vertical terminal [-T], AMP connector [-J], [-J1])

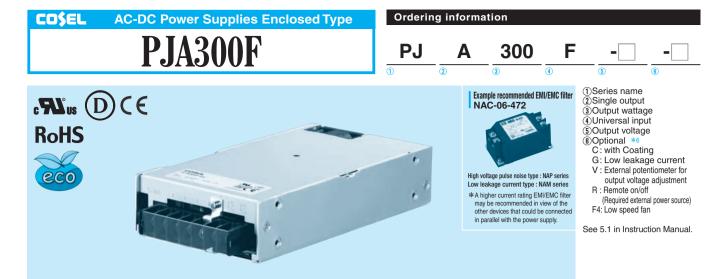
Block diagram



External view

The external size of –R option, –J option, –J1 option, –N2 option and –T option models is different from the standard model. See "5. Options and Others" in Instruction Manual for more details.





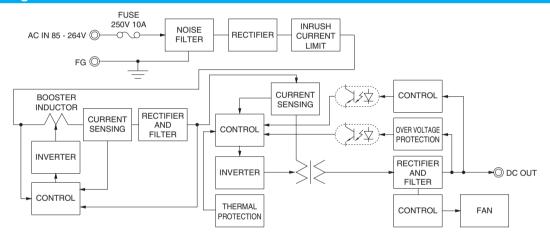
	MODEL		PJA300F-5	PJA300F-12	PJA300F-15	PJA300F-24	PJA300F-36	PJA300F-48				
	VOLTAGE[V]		AC85 - 264 1 φ (O	utput derating is req	uired at AC85V - 100	V. See 1.1 and 3.2 ir	n Instruction Manual)				
		ACIN 100V	3.5typ (lo=100%)	3.9typ (lo=100%)	-		-	·				
	CURRENT[A]	ACIN 115V	3.0typ (lo=100%)	3.3typ (lo=100%)								
		ACIN 230V	1.5typ (lo=100%)	1.7typ (lo=100%)								
	FREQUENCY[Hz]		50 / 60 (47 - 63)									
NPUT		ACIN 100V	73typ (lo=100%)	79typ (lo=100%)	81typ (lo=100%)	82typ (lo=100%)	83typ (lo=100%)	82typ (lo=100%)				
	EFFICIENCY[%]	ACIN 115V	74typ (lo=100%)	80typ (lo=100%)	82typ (lo=100%)	83typ (lo=100%)	83typ (lo=100%)	83typ (lo=100%)				
		ACIN 230V	77typ (lo=100%)	82typ (lo=100%)	84typ (lo=100%)	86typ (lo=100%)	87typ (lo=100%)	86typ (lo=100%				
		ACIN 100V	0.99typ (lo=100%)									
	POWER FACTOR	ACIN 115V	0.98typ (lo=100%)									
		ACIN 230V	0.95typ (lo=100%)									
		ACIN 100V	20typ (lo=100%) Ta	a=25°C 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 24	0V, 60Hz, Io=100%,	According to IEC623	68-1 and DEN-AN)						
	VOLTAGE[V]		5	12	15	24	36	48				
		ACIN 85-100V	Output derating is	required at ACIN 100	OV or less (refer to in	struction manual 3.2)					
	CURRENT[A]	ACIN 100V-264V	50	25	20	12.5	8.4	6.3				
		ACIN 85-100V	Output derating is	required at ACIN 100	OV or less (refer to in	struction manual 3.2)					
	WATTAGE[W]	ACIN 100V-264V	250	300	300	300	302.4	302.4				
	LINE REGULATION[mV] *3		20max	48max	60max	96max	144max	192max				
	LOAD REGULATION[mV] *3	40max	100max	120max	150max	150max	300max				
	RIPPLE[mVp-p]	0 to +50℃	80max	120max	120max	120max	150max	150max				
UTPUT	*1	-10 to 0°C	140max	160max	160max	160max	160max	400max				
01901	RIPPLE NOISE[mVp-p]	0 to +50℃	120max	150max	150max	150max	200max	200max				
	*1	-10 to 0°C	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 100V, Io=100%)									
	HOLD-UP TIME[ms]		20typ (ACIN 100V,	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		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	*9	AC3,000V 1minute	, Cutoff current = 10	mA, DC500V 50MΩ	min (At room tempe	erature)					
SOLATION	INPUT-FG		AC2,000V 1minute	, Cutoff current = 10	mA, DC500V 50MΩ	min (At room tempe	erature)					
JOLAHON	OUTPUT • RC-FG	*9	AC500V 1minute, 0	Cutoff current = 100r	nA, DC500V 50M Ω	min (At room temper	rature)					
	OUTPUT-RC	*9			nA, DC500V 50M Ω		,					
	OPERATING TEMP., HUMID.AND				ed), 20 - 90%RH (No	3,	0m (10,000 feet) ma	х				
NVIRONMENT	STORAGE TEMP., HUMID.AND	ALTITUDE			nsing), 9,000m (30,0	,						
	VIBRATION		10 - 55Hz, 19.6m/s	² (2G), 3minutes per	riod, 60minutes each	along X, Y and Z ax	es					
	IMPACT			1ms, once each X, Y								
AFETY AND	AGENCY APPROVAL	S	UL62368-1, C-UL	CSA62368-1), EN6	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	ATOR *8	Complies with IEC	61000-3-2 class A								



OTHERS	CASE SIZE/WEIGHT	102×41	102×41×190mm [4.02×1.61×7.48 inches] (Excluding terminal block and screw) (W×H×D) / 1.0kg max							
UTHERS	COOLING METHOD *7	Forced cooling (internal fan)								
WARRANTY	WARRANTY *5	5 years (subject to the operating conditions)							
*1 This is the r	result of measurement of the testing board with o	apacitors of	*3 Consult us about dynamic load and input response.		isolated from input, output, and FG.					
22 µ F and	0.1 µ F placed at 150 mm from the output termin	als by a 20	*4 Output power derating is required. See 3.2 in Instruction Manual.	*	Do not use the power supply in overcurrent conditions or in unspecified					
MHz oscillo	scope or a ripple-noise meter equivalent to Keis	oku-Giken	*5 See 3.3 in Instruction Manual for more details.		input voltage ranges. Otherwise the internal components may be					
RM103.			*6 Consult us about safety agency approvals for the models with optional functions.		damaged.					
See 1.6 of I	Instruction Manual for more details.		*7 The fan speed slows down at no load.	*	Parallel operation is not possible with this mode.					
*2 Drift is the opening the opening of the openi	change in DC output for an eight hour period afte	r a half-hour	*8 Consult us about other classes.	*	Sound noise may be heard from the power supply when used for					
warm-up at	25℃.		*9 The RC terminal is added to option –R models. The RC terminal is		pulse load.					
Feat	ures									

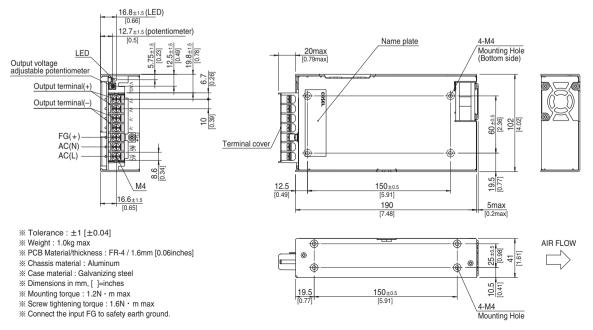
- · Cost-effective
- · Longer life (see Instruction Manual)
- · Low profile (meets 1U height = 41 mm or 1.61 inches)
- ·Wide operating temperature range (-20°C to +70°C see instruction manual)
- · Slow fan speed at no load
- · Complies with SEMI F-47
- · Many optional functions

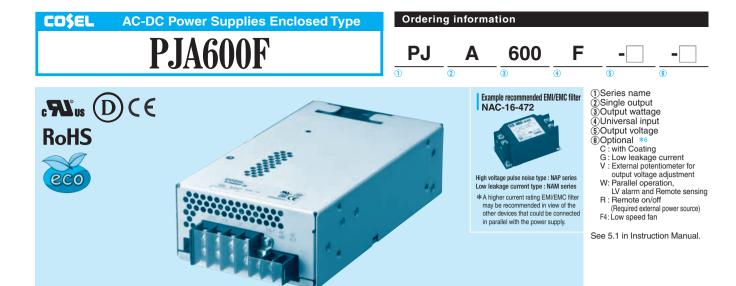
Block diagram



External view

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





	MODEL		PJA600F-5	PJA600F-12	PJA600F-15	PJA600F-24	PJA600F-36	PJA600F-48			
	VOLTAGE[V]		AC85 - 264 1 ¢ (O	utput derating is req	uired at AC85V - 100	V. See 1.1 and 3.2 ir	n Instruction Manual)			
		ACIN 100V	6.7typ (lo=100%)	7.5typ (lo=100%)			-	·			
	CURRENT[A]	ACIN 115V	5.7typ (lo=100%)	6.5typ (lo=100%)							
		ACIN 230V	2.8typ (lo=100%)	3.2typ (lo=100%)		-					
	FREQUENCY[Hz]	1	50 / 60 (47 - 63)								
		ACIN 100V	76typ (lo=100%)	81typ (lo=100%)	82typ (lo=100%)	84typ (lo=100%)	85typ (lo=100%)	85typ (lo=100%)			
	EFFICIENCY[%]	ACIN 115V	77typ (lo=100%)	82typ (lo=100%)	82typ (lo=100%)	85typ (lo=100%)	86typ (lo=100%)	85typ (lo=100%)			
VPUT		ACIN 230V	79typ (lo=100%)	84typ (lo=100%)	85typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)			
F		ACIN 100V	0.99typ (lo=100%)	, , , , , , , , , , , , , , , , , , , ,		, , , ,	, ,, ,				
	POWER FACTOR	ACIN 115V	0.98typ (lo=100%)								
		ACIN 230V	0.95typ (lo=100%)								
		ACIN 100V	20/40typ (lo=100%) (Primary inrush cu	rrent /Secondary inru	ush current) (More th	han 3sec to re-start)				
	INRUSH CURRENT[A]	ACIN 115V	71 (rrent /Secondary inru	, ,	,				
		ACIN 230V			rrent /Secondary inru	, , ,	,				
h	LEAKAGE CURRENT	[mA]			ccording to IEC6236	, (,				
	VOLTAGE[V]		5	12	15	24	36	48			
		ACIN 85-100V	Output derating is r	equired at ACIN 10	OV or less (refer to in:	struction manual 3.2)				
1	CURRENT[A]	ACIN 100V-264V	100	50	40	25	16.7	12.5			
-		ACIN 85-100V	Output derating is r	equired at ACIN 100	OV or less (refer to in:	struction manual 3.2)				
'	WATTAGE[W]	ACIN 100V-264V	500	600	600	600	601.2	600			
F	LINE REGULATION[mV] *7		20max	48max	60max	96max	144max	192max			
	LOAD REGULATION		40max	100max	120max	150max	150max	300max			
H	RIPPLE[mVp-p]	0 to +50°C	80max	120max	120max	120max	150max	150max			
		-20 to 0°C	140max	160max	160max	160max	160max 400max				
	RIPPLE NOISE[mVp-p]	0 to +50°C	120max	150max	150max	150max	200max	200max			
'	*1	-20 to 0°C	160max	180max	180max	180max	240max	500max			
-		0 to +50°C	50max	120max	150max	240max	360max	480max			
1	TEMPERATURE REGULATION[mV]	-20 to +50°C	75max	180max	180max	290max	440max	600max			
H	DRIFT[mV]	*2	20max	48max	60max	96max	144max	192max			
	START-UP TIME[ms]		300typ (ACIN 100\		oomax	Joinax	THHIAN	TOZINAX			
-	HOLD-UP TIME[ms]		20typ (ACIN 100V,	,							
	OUTPUT VOLTAGE ADJUSTMEN	T BANGEIVI	21 X	10.80 to 13.20	13.50 to 16.50	21.60 to 26.40	32.40 to 39.60	43.20 to 52.80			
-	OUTPUT VOLTAGE SETT		5.00 to 5.15	12.00 to 12.48	15.00 to 15.60	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92			
	OVERCURRENT PROTE			of rating and recover		24.00 10 24.90	30.00 10 37.44	40.00 10 43.32			
	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			
	OPERATING INDICAT		LED (Green)	10.00 10 10.00	17.20 to 21.00	27.00 10 00.00	11.40 10 30.40	00.20 10 07.20			
. –	REMOTE SENSING		Optional (Option -W)								
- <u> </u>	REMOTE ON/OFF		1 (1	/	rce Ontion -B)						
	INPUT-OUTPUT • RC	*3	Optional (Required external power source. Option -R) AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At room temperature)								
	INPUT-FG	+0			mA, DC500V 50MΩ		,				
SOLATION –	OUTPUT • RC-FG	*3				· · ·					
	OUTPUT-RC	*3	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At room temperature) AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At room temperature)								
	OPERATING TEMP., HUMID.AND				ed), 20 - 90%RH (No		,	Y			
	STORAGE TEMP., HUMID.AND			i	nsing), 9,000m (30,00	0,		^			
NVIRONMENT –	VIBRATION	ALIHODE		· ·	riod, 60minutes each	,	05				
	IMPACT										
			· /·	1ms, once each X, Y	2368-1 Complies with						
	CONDUCTED NOISE	3									
H					22-B, EN55011-B, EN	N00022-B					
- SOLUTIONO	HARMONIC ATTENU		Complies with IEC	DIDUU-S-Z 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							
UTHENS	COOLING METHOD *8	Forced cooling (internal fan)							
WARRANTY	WARRANTY *5	5 years (sul	pject to the operating conditions)						
22 µ F and MHz oscillo RM103. See 1.6 of	result of measurement of the testing board with o 0.1 µ F placed at 150 mm from the output termin scope or a ripple-noise meter equivalent to Keis Instruction Manual for more details. change in DC output for an eight hour period afte 25°C.	als by a 20 oku-Giken *4 *1	isolated from input, output, and FG. 4 Output power derating is required. See 3.2 in Instruction Manual. 5 See 3.3 in Instruction Manual for more details. 6 Consult us about safety agency approvals for the models with optional functions. 7 Consult us about dynamic load and input response.	*9 * * *	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 PLA600FA models with the –W option only. Sound noise may be heard from the power supply when used for pulse load.				

· Slow fan speed at no load

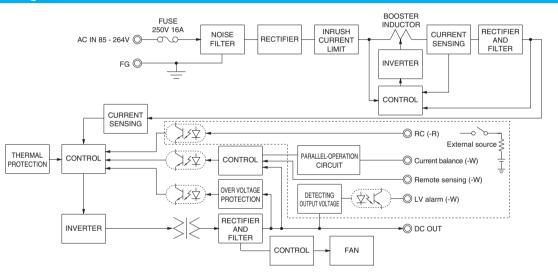
· Complies with SEMI F-47

· Many optional functions

Features

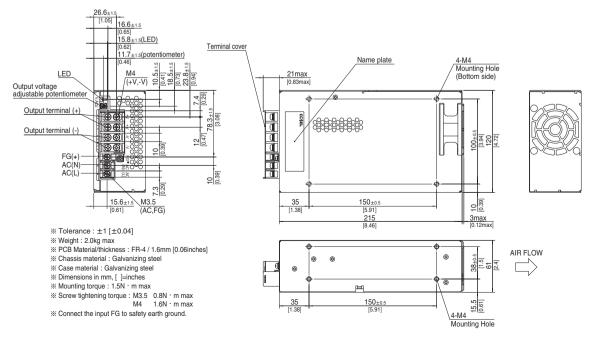
- · Cost-effective
- · Longer life (see Instruction Manual)
- Low profile (meets 2U height = 61 mm or 2.40 inches)
- · Wide operating temperature range (-20°C to +70°C see instruction manual)

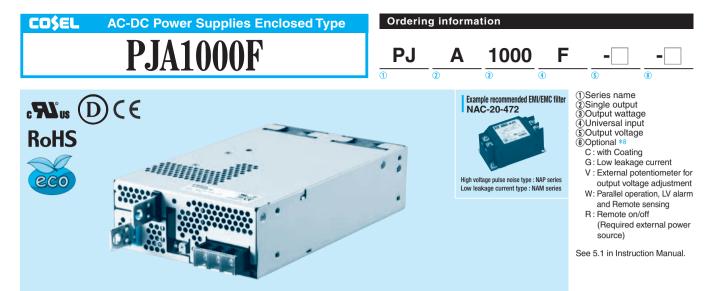
Block diagram



External view

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





	MODEL		PJA1000F-12	PJA1000F-15	PJA1000F-24	PJA1000F-36	PJA1000F-48				
	VOLTAGE[V]		AC85 - 264 1 ¢ (Outp	ut derating is required	at AC85V - 115V. See 1.	1 and 3.2 in Instruction N	lanual)				
		ACIN 100V	12.5typ (lo=90%)								
	CURRENT[A]	ACIN 115V	11.0typ (lo=100%)								
		ACIN 230V	5.5typ (lo=100%)								
	FREQUENCY[Hz]		50 / 60 (47 - 63)								
INPUT		ACIN 100V	81typ (lo=90%)	82typ (lo=90%)	84typ (lo=90%)	84typ (lo=90%)	84typ (lo=90%)				
	EFFICIENCY[%]	ACIN 115V	82typ (lo=100%)	82typ (lo=100%)	85typ (lo=100%)	85typ (lo=100%)	85typ (lo=100%)				
		ACIN 230V	85typ (lo=100%)	85typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)				
		ACIN 100V	0.98typ (lo=90%)				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	POWER FACTOR	ACIN 115V	0.98typ (lo=100%)								
		ACIN 230V	0.95typ (lo=100%)								
		ACIN 100V	, ,	rimary inrush current /S	econdary inrush current) (More than 10sec to re	e-start)				
	INRUSH CURRENT[A]	ACIN 115V		,			,				
		ACIN 230V	71 () (15/30typ (lo=100%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start) 30/30typ (lo=100%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start)							
	LEAKAGE CURRENT	[mA]	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		ing to IEC62368-1 and E	<i>,</i> , , , , , , , , , , , , , , , , , ,					
	VOLTAGE[V]		12	15	24	36	48				
		ACIN 85-115V		1	ess (refer to instruction r						
	CURRENT[A]	ACIN 115V-264V	84	67	42	28	21				
		ACIN 85-115V		-	ess (refer to instruction r		1				
	WATTAGE[W]	ACIN 115V-264V	1008	1005	1008	1008	1008				
	LINE REGULATION[n		48max	60max	96max	144max	192max				
	LOAD REGULATION		100max	120max	150max	150max	300max				
	RIPPLE[mVp-p]	0 to +50°C		180max	120max	150max	200max				
	*1	-20 to 0°C		240max	160max	200max	500max				
OUTPUT	RIPPLE NOISE[mVp-p]		210max	210max	150max	200max	300max				
		-20 to 0°C		270max	180max	240max	600max				
		0 to +50°C		150max	240max	360max	480max				
	TEMPERATURE REGULATION[mV]	-20 to +50°C	180max	180max	290max	440max	600max				
	DRIFT[mV] *3		48max	60max	96max	144max	192max				
	START-UP TIME[ms]		800typ (ACIN 115V, Ic				1.0				
	HOLD-UP TIME[ms]		20typ (ACIN 115V, Io=	,							
	OUTPUT VOLTAGE ADJUSTMEN	T RANGEIVI		13.50 to 17.30	20.40 to 28.50	30.60 to 40.80	40.80 to 55.20				
	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			ating and recovers auto							
PROTECTION	OVERVOLTAGE PROTE		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				
CIRCUIT AND	OPERATING INDICAT		LED (Green)				1				
OTHERS	REMOTE SENSING		Optional (Option -W)								
	REMOTE ON/OFF			ternal power source. O	otion -R)						
	INPUT-OUTPUT				$C500V 50M\Omega$ min (At re	com temperature)					
ISOLATION	INPUT-FG		, ,	,	$C500V 50M\Omega$ min (At r						
	OUTPUT-FG		, ,	,	C500V 50M Ω min (At ro	1 /					
	OPERATING TEMPHUMID.AND	ALTITUDE *4				sing), 3,000m (10,000 fe	et) max				
	STORAGE TEMP., HUMID.AND		· · · ·	0 1 //	9,000m (30,000 feet) m	0,, , (,					
ENVIRONMENT	VIBRATION				Ominutes each along X,						
	IMPACT			s, once each X, Y and							
SAFETY AND	AGENCY APPROVAL	s									
	AGENOT ATT HOVAL	-	UL62368-1, C-UL (CSA62368-1), EN62368-1 Complies with DEN-AN Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B								
NOISE	CONDUCTED NOISE		Complies with ECC-R	VCCI-R CISPR22-R	EN55011-R EN55022-R						



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							
UTHENS	COOLING METHOD *6	Forced of	Forced cooling (internal fan)						
WARRANTY	NRRANTY WARRANTY *7 5 years (subject to the operating conditions)								
22 µ F and MHz oscillo RM103. See 1.6 of I	esult of measurement of the testing board with 0.1 µ F placed at 150 mm from the output termi scope or a ripple-noise meter equivalent to Keis nstruction Manual for more details. about dynamic load and input response.	hals by a 20	 *3 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. See 3.2 in Instruction Manual. *5 Consult us about other classes. *6 The fan speed slows down or stops at no load. *7 See 3.3 in Instruction Manual for more details. 	*8 * *	Consult us about safety agency approvals for the models with optional functions. 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. Audible noise may be heard from the power supply when used for pulse load.				

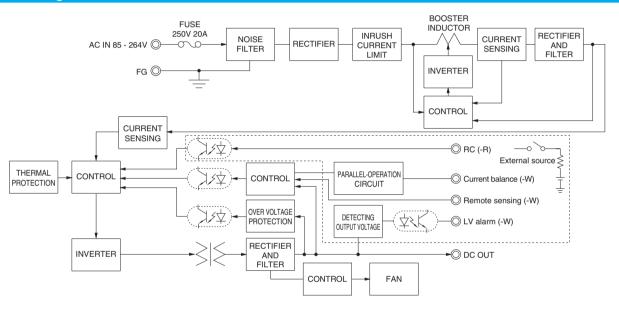
Features

- · 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)

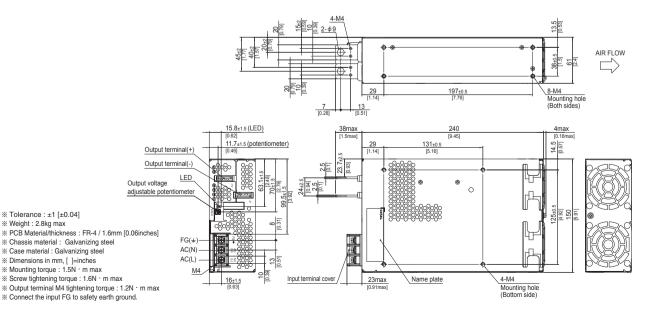
· Stop or slow fan speed at no load

Block diagram



External view

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





	MODEL		PJA1500F-12	PJA1500F-15	PJA1500F-24	PJA1500F-36	PJA1500F-48			
	VOLTAGE[V]		AC85 - 264 1 ¢ (Outp			1 and 3.2 in Instruction N	lanual)			
		ACIN 100V	18typ (lo=90%)							
	CURRENT[A]	ACIN 115V	16typ (lo=100%)							
		ACIN 230V	8typ (lo=100%)							
	FREQUENCY[Hz]	1	50 / 60 (47 - 63)							
INPUT		ACIN 100V	81typ (lo=90%)	82typ (lo=90%)	84typ (lo=90%)	84typ (lo=90%)	84typ (lo=90%)			
	EFFICIENCY[%]	ACIN 115V	82typ (lo=100%)	82typ (lo=100%)	85typ (lo=100%)	85typ (lo=100%)	84typ (lo=100%)			
		ACIN 230V	85typ (lo=100%)	85typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)	87typ (lo=100%)			
		ACIN 100V	0.98typ (lo=90%)							
	POWER FACTOR	ACIN 115V	0.98typ (lo=100%)							
		ACIN 230V	0.95typ (lo=100%)							
		ACIN 100V	, ,	imary inrush current /S	econdary inrush current) (More than 10sec to re	e-start)			
	INRUSH CURRENT[A]	ACIN 115V		*		nt) (More than 10sec to				
		ACIN 230V	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			nt) (More than 10sec to	,			
	LEAKAGE CURRENT	[mA]	,1 () (,	ng to IEC62368-1 and E	7 (,			
	VOLTAGE[V]		12	15	24	36	48			
		ACIN 85-115V	Output derating is reg	-	ess (refer to instruction r					
	CURRENT[A]	ACIN 115V-264V	125	100	64	42	32			
		ACIN 85-115V	.=		ess (refer to instruction r	.=				
	WATTAGE[W]	ACIN 115V-264V	1500	1500	1536	1512	1536			
	LINE REGULATION[mV] *2		48max	60max	96max	144max	192max			
	LOAD REGULATION[mV] *2		100max	120max	150max	150max	300max			
	RIPPLE[mVp-p]	0 to +50°C	180max	180max	120max	150max	200max			
OUTPUT	*1	-20 to 0°C		240max	160max	200max	500max			
	RIPPLE NOISE[mVp-p]		210max	210max	150max	200max	300max			
		-20 to 0°C		270max	270max	240max	600max			
	TEMPERATURE REGULATION[mV]	0 to +50°C		150max	240max	360max	480max			
		-20 to +50°C	180max	180max	290max	440max	600max			
	DRIFT[mV]		48max	60max	96max	144max	192max			
	START-UP TIME[ms]		800typ (ACIN 115V, Io		Joinax	THINA	TOZINAX			
	HOLD-UP TIME[ms]		20typ (ACIN 115V, Io=	,						
	OUTPUT VOLTAGE ADJUSTMEN			13.50 to 17.30	20.40 to 28.50	30.60 to 40.80	40.80 to 55.20			
	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			ating and recovers auto		100.00 10 07.74	10.00 10 40.02			
PROTECTION	OVERVOLTAGE PROTE		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			
CIRCUIT AND	OPERATING INDICAT		LED (Green)	.0.00 to 21.00	1 20.00 10 07.00	10.20 10 02.20	07.00 10 07.20			
OTHERS	REMOTE SENSING		Optional (Option -W)							
-	REMOTE ON/OFF		1 (1)	ternal power source. O	ntion -B)					
	INPUT-OUTPUT			I	C500V 50M Ω min (At re	oom temperature)				
SOLATION	INPUT-FG			,	C500V 50M Ω min (At re					
OSEAHON .	OUTPUT-FG		, ,	,	C500V 50M Ω min (At ro	/				
	OPERATING TEMPHUMID.AND				· · · · · · · · · · · · · · · · · · ·	sing), 3,000m (10,000 fe	et) may			
	STORAGE TEMP., HUMID.AND		· · · · ·	0 1 //	9,000m (30,000 feet) m	0,, , (,	ory max			
ENVIRONMENT	VIBRATION	ALITUDE			Dminutes each along X,					
	IMPACT			s, once each X, Y and		1 and 2 ares				
		<u> </u>			, Complies with DEN-AI	NI				
SAFETY AND	CONDUCTED NOISE	5	, ,		<u>/ </u>	Mitional EMI/EMC Filter is	required for meeting of			
NOISE			UCOMPILES WILL FOUA, V	IUUI-A, UIOFRZZ-A, EN	JOUTT-A, ENDOUZZ-A, 200	JILIOHAI EIVII/EIVIO FIILEI IS	required for meeting cl			



OTHERS	CASE SIZE/WEIGHT	178×61	178×61×268mm [7.01×2.40×10.55 inches] (Excluding terminal block and screw) (W×H×D) / 3.5kg max						
C	COOLING METHOD *6	Forced cooling (internal fan)							
WARRANTY	WARRANTY *7	5 years (subject to the operating conditions)						
22 µ F and 0.1 µ MHz oscilloscop RM103. See 1.6 of Instru	ult of measurement of the testing board with c µ F placed at 150 mm from the output termin ope or a ripple-noise meter equivalent to Keise truction Manual for more details.	als by a 20	 *3 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. See 3.2 in Instruction Manual. *5 Consult us about other classes. *6 The fan speed slows down or stops at no load. 		Consult us about safety agency approvals for the models with optional functions. 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.				
*2 Consult us abo	bout dynamic load and input response.		*7 See 3.3 in Instruction Manual for more details.	*	Audible noise may be heard from the power supply when used for pulse load				

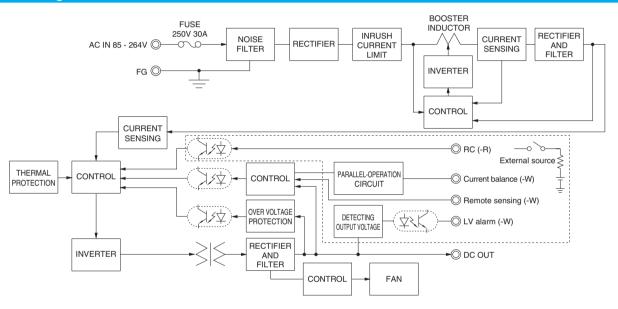
Features

- · 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)

· Stop or slow fan speed at no load

Block diagram



External view

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

