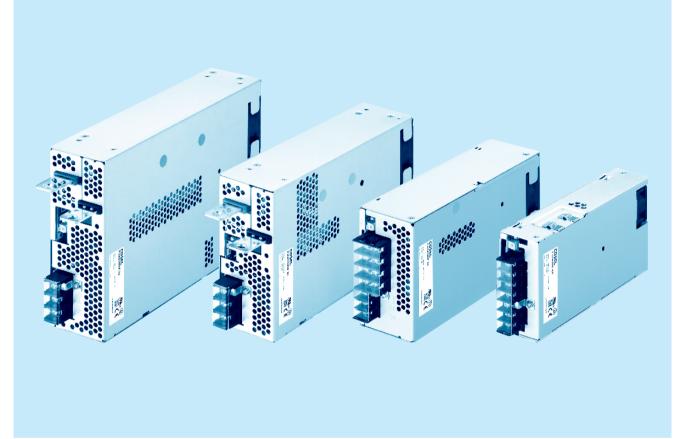




P.JMA

PJMA-series



Feature

4kV isolation

Economical design

Suitable for BF application (Output-FG : 1MOPP, Input-Output : 2MOPP)

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

Safety agency approvals

ANSI/AAMI ES60601-1, EN60601-1 3rd

5-year warranty (See Instruction Manual)

CE marking

Low Voltage Directive RoHS Directive

EMI

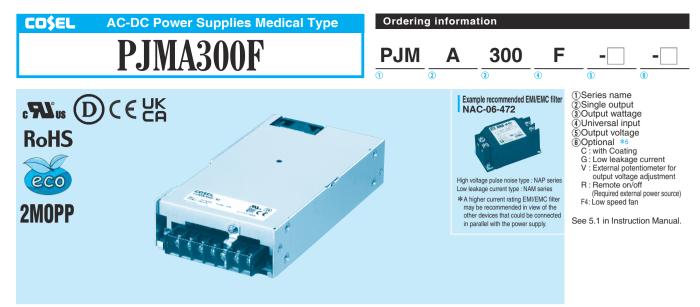
Complies with FCC-B, CISPR32-B, EN55011-B, EN55032-B, VCCI-B

(PJMA1500F: Class A. In conducted noise, it can meet class B by additional EMI/EMC filter.)

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

EN61204-3, EN61000-6-2
 IEC60601-1-2 (2014), IEC60601-1-2 (2015)

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



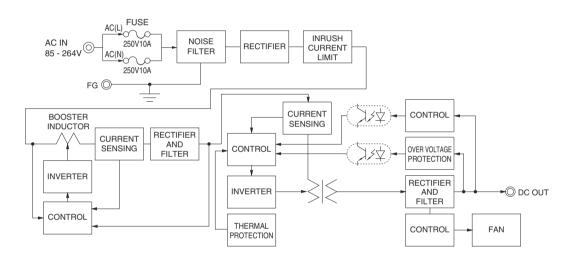
	MODEL		PJMA300F-12	PJMA300F-24	PJMA300F-36	PJMA300F-48					
	VOLTAGE[V]		AC85 - 264 1 ¢ (Output dera								
		ACIN 100V	3.9typ (lo=100%)								
	CURRENT[A]		3.3typ (lo=100%)								
			1.7typ (lo=100%)								
	FREQUENCY[Hz]		50 / 60 (47 - 63)								
		ACIN 100V	79typ (lo=100%)	82typ (lo=100%)	83typ (lo=100%)	82typ (lo=100%)					
INPUT	EFFICIENCY[%]		80typ (lo=100%)	83typ (lo=100%)	83typ (lo=100%)	71 ()					
			82typ (lo=100%)	86typ (lo=100%)	87typ (lo=100%)						
			0.99typ (lo=100%)								
	POWER FACTOR		0.98typ (lo=100%)								
	- Children Adron		0.95typ (lo=100%)								
		ACIN 100V	20typ (Io=100%) 20typ (Io=100%) TA=25°C at cold start								
	INRUSH CURRENT[A]	ACIN 115V	71 ()								
		ACIN 230V	40typ (lo=100%) TA=25°C at								
	LEAKAGE CURRENT		0.3max (ACIN 240V, 60Hz, lo								
	VOLTAGE[V]	[12	24	36	83typ (lo=100%) 90%) 83typ (lo=100%) 90%) 86typ (lo=100%) 90% 86typ (lo=100%) 90% 90%					
	VOLTAGE[V]	ACIN 85-100V	Output derating is required a	1		40					
	CURRENT[A]	ACIN 85-100V ACIN 100V-264V	25	12.5	8.4	6.2					
		ACIN 100V-204V ACIN 85-100V				0.3					
	WATTAGE[W]	ACIN 85-100V ACIN 100V-264V	Output derating is required a 300	300	302.4	200.4					
	LINE REGULATION[n		48max	96max	144max						
	LOAD REGULATION		100max	150max	150max						
	RIPPLE[mVp-p]	0 to +50℃	120max	120max	150max						
OUTPUT	*1	-10 to 0℃	160max	160max	160max						
	RIPPLE NOISE[mVp-p]	0 to +50℃	150max	150max	200max						
	*1	-10 to 0℃	180max	180max	240max						
	TEMPERATURE REGULATION[mV]	0 to +50℃	120max	240max	360max						
		-10 to +50℃	180max	290max	440max						
	DRIFT[mV] *2		48max	96max	144max	192max					
	START-UP TIME[ms]		300typ (ACIN 100V, lo=100%)								
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%))							
	OUTPUT VOLTAGE ADJUSTME	NT RANGE[V]	10.80 to 13.20	21.60 to 26.40	32.40 to 39.60	43.20 to 52.80					
	OUTPUT VOLTAGE SET		12.00 to 12.48	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92					
	OVERCURRENT PROTE		Works over 105% of rating a	,							
ROTECTION	OVERVOLTAGE PROTE			27.60 to 33.60	41.40 to 50.40	55.20 to 67.20					
IRCUIT AND	OPERATING INDICAT	ΓΙΟΝ	LED (Green)								
OTHERS	REMOTE SENSING		Not provided								
	REMOTE ON/OFF		Optional (Required external power source. Option -R)								
	INPUT-OUTPUT • RC	*9									
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff=20mA, 1MOPP DC500V 50MΩmin (At room temperature)								
SOLATION	OUTPUT • RC-FG	*9	AC1,500V 1minute, Cutoff=20mA, 1MOPP DC500V 50MΩmin (At room temperature)								
	OUTPUT-RC	*9	AC500V 1minute, Cutoff=20mA, DC500V 50MΩmin (At room temperature)								
	OPERATING TEMP.,HUMID.AND	ALTITUDE *4	-20 to +70°C (Refer to "Derat	ing"), 20 - 90%RH (Non cond	densing), 3,000m (10,000 fe	eet) max					
NVIRONMENT	STORAGE TEMP.,HUMID.ANI	D ALTITUDE									
	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60 minutes each along X, Y and Z axes								
	IMPACT		196.1m/s2 (20G), 11ms, once	e each X, Y and Z axes							
SAFETY AND	AGENCY APPROVAL	s	ANSI/AAMI ES60601-1, EN6	60601-1 3rd							
NOISE	CONDUCTED NOISE		Complies with FCC-B, VCCI-	B, CISPR22-B, EN55011-B,	EN55022-B						
REGULATIONS	HARMONIC ATTENU		Complies with IEC61000-3-2								



OTHERS	CASE SIZE/WEIGHT	102×41	190mm [4.02×1.61×7.48 inches] (Excluding terminal)	l bloo	ck and screw) (W×H×D) / 1.0kg max						
OTHERS	COOLING METHOD *7	Forced c	ed cooling (internal fan)								
WARRANTY	WARRANTY *5	5 years (rs (subject to the operating conditions)								
of 22 µ F a a 20 MHz o Giken R104 See 1.6 of I	nstruction Manual for more details. Shange in DC output for an eight hour period afte	terminals by to Keisoku-	 *3 Consult us about dynamic load and input response. *4 Output power derating is required. Refer to "Derating". *5 See 4 in Instruction Manual for more details. *6 Consult us about safety agency approvals for the models with optional function *7 The fan speed slows down at no load. *8 Consult us about other classes. *9 The RC terminal is added to option –R models. The RC terminal is 	* 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.						
Feat	ures										

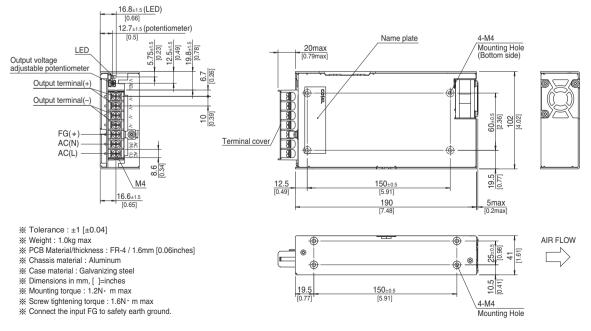
- · 4kV isolation
- · Economical design
- Suitable for BF application (Output-FG : 1MOPP, Input-Output : 2MOPP)
- Wide temperature range (-20°C to +70°C, Refer to "Derating") • Harmonic attenuator (Complies with IEC61000-3-2 class A)
- · Universal input (AC85 264V, Refer to "Derating")
- · Low power consumption at no load

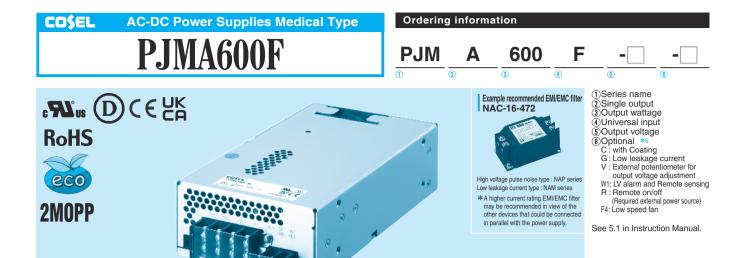
Block diagram



External view

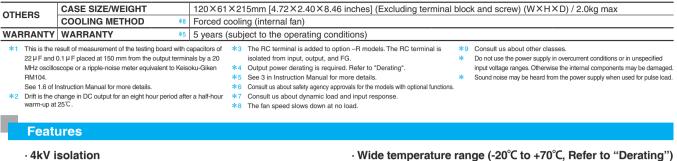
The external size of –V option and –R option models is different from the standard model. See "5. Options and Others" in Instruction Manual for more details.





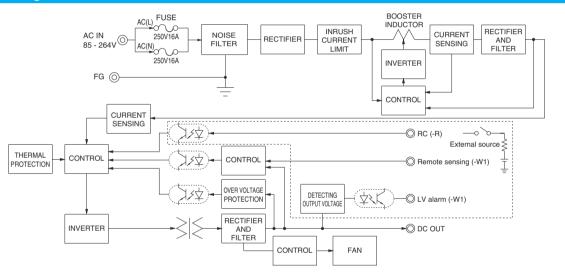
N	MODEL		PJMA600F-12	PJMA600F-24	PJMA600F-36	PJMA600F-48						
1	VOLTAGE[V]		AC85 - 264 1 ¢ (Output dera	ting is required at AC85V - 10	0V. Refer to "Derating" and ir	struction manual 1.1)						
		ACIN 100V	7.5typ (lo=100%)									
0	CURRENT[A]	ACIN 115V	6.5typ (lo=100%)									
		ACIN 230V	3.2typ (lo=100%)									
F	FREQUENCY[Hz]		50 / 60 (47 - 63)									
		ACIN 100V	81typ (lo=100%)	84typ (lo=100%)	85typ (lo=100%)	85typ (lo=100%)						
E	EFFICIENCY[%]		82typ (lo=100%)	85typ (lo=100%)	86typ (lo=100%)							
NPUT			84typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)							
			0.99typ (lo=100%)									
F	POWER FACTOR		0.98typ (lo=100%)									
	••••		0.95typ (lo=100%)									
F			20/40typ (Io=100%) (Primary	inrush current /Secondary in	rush current) (More than 3se	ec to re-start)						
	NRUSH CURRENT[A]		, , , , , , , , , , , , , , , , , , , ,	,	/ (,						
		ACIN 230V		20/40typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 3sec to re-start) 40/40typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 3sec to re-start)								
l l	LEAKAGE CURRENT		0.3max (ACIN 240V,60Hz,Io=		word man off							
	VOLTAGE[V]	[]	12	24	36	Instruction manual 1.1) 85typ (lo=100%) 85typ (lo=100%) 85typ (lo=100%) 8sec to re-start) isec to re-start) <t< td=""></t<>						
		ACIN 85-100V		ACIN 100V or less (Refer to								
C	CURRENT[A]	ACIN 05-100V ACIN 100V-264V		25	16.7	12.5						
-		ACIN 1009-2049 ACIN 85-100V		t ACIN 100V or less (Refer to		12.0						
1	WATTAGE[W]	ACIN 100V-264V	600	600	601.2	600						
- F			48max	96max	144max							
	LOAD REGULATION[mV]		100max	150max	150max							
	-	mV] *7 0 to +50°C	120max	120max	150max							
	RIPPLE[mVp-p]	-20 to 0°C	160max	160max	160max							
	*1		150max									
F	RIPPLE NOISE[mVp-p]	0 to +50℃ -20 to 0℃	180max	150max	200max							
-	• ا			180max	240max							
T	[EMPERATURE REGULATION[mV]	0 to +50°C	120max	240max	360max							
-		-20 to +50℃	180max	290max	440max							
	DRIFT[mV] *2		48max	96max	144max	192max						
	START-UP TIME[ms]		300typ (ACIN 100V, lo=100%	· · · · · · · · · · · · · · · · · · ·								
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)	1								
-	DUTPUT VOLTAGE ADJUSTMEN			21.60 to 26.40	32.40 to 39.60							
	OUTPUT VOLTAGE SETT		12.00 to 12.48	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92						
E E	OVERCURRENT PROTE		Works over 105% of rating an									
	OVERVOLTAGE PROTE			27.60 to 33.60	41.40 to 50.40	55.20 to 67.20						
	OPERATING INDICAT	ION	LED (Green)									
	REMOTE SENSING		Optional (Option -W1)									
	REMOTE ON/OFF		Optional (Required external power source. Option -R)									
	NPUT-OUTPUT • RC	*3										
SOLATION –	NPUT-FG		AC2,000V 1minute, Cutoff=20mA, 1MOPP DC500V 50MΩmin (At room temperature)									
(OUTPUT • RC-FG	*3										
	OUTPUT-RC	*3	AC500V 1minute, Cutoff=20mA, DC500V 50MΩmin (At room temperature)									
	OPERATING TEMP.,HUMID.AND		-20 to +70°C (Refer to "Derating"), 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max									
NVIRONMENT 🛏	STORAGE TEMP.,HUMID.AND	ALTITUDE										
	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axes									
	MPACT		196.1m/s ² (20G), 11ms, once									
	AGENCY APPROVAL	S	ANSI/AAMI ES60601-1, EN6									
	CONDUCTED NOISE			B, CISPR32-B, EN55011-B, E	N55032-B							
REGULATIONS	HARMONIC ATTENU	ATOR *9	Complies with IEC61000-3-2	class A								





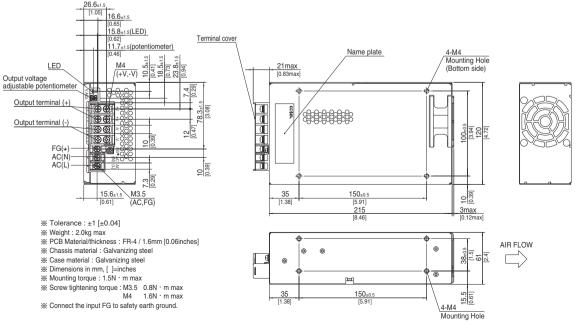
- · Economical design
- Suitable for BF application (Output-FG : 1MOPP, Input-Output : 2MOPP)
- Harmonic attenuator (Complies with IEC61000-3-2 class A)
- · Universal input (AC85 264V, Refer to "Derating")
- · Low power consumption at no load

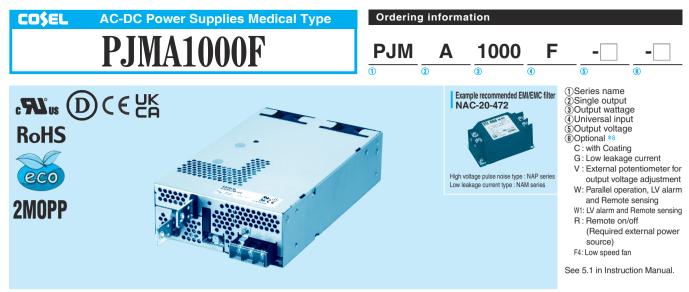
Block diagram



External view

The external size of –V option, –W1 option and –R option models is different from the standard model. See "5. Options and Others" in Instruction Manual for more details.





	MODEL		PJMA1000F-12	PJMA1000F-24	PJMA1000F-36	PJMA1000F-48						
	VOLTAGE[V]		AC85 - 264 1 ¢ (Output o	lerating is required at AC85	/ - 115V. Refer to "Derating" an	d instruction manual 1.1)						
F		ACIN 100V	12.5typ (lo=90%)									
	CURRENT[A]	ACIN 115V	11.0typ (lo=100%)									
			5.5typ (lo=100%)									
-	FREQUENCY[Hz]		50 / 60 (47 - 63)									
F			81typ (lo=90%)	84typ (lo=90%)	84typ (lo=90%)	84typ (Io=90%)						
	EFFICIENCY[%]		82typ (lo=100%)	85typ (lo=100%)	85typ (lo=100%)	85typ (lo=100%)						
IPUT			85typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)						
-			0.98typ (lo=90%)									
	POWER FACTOR		0.98typ (lo=100%)									
			0.95typ (lo=100%)									
F			, ,	arv inrush current /Secondar	y inrush current) (More than 1	Osec to re-start)						
	INRUSH CURRENT[A]		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		, , , ,	,						
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	15/30typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start) 30/30typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start)								
F	LEAKAGE CURRENT	1	0.3max (ACIN 240V, 60H									
	VOLTAGE[V]	(12	24	36	48						
	ACIN 85-115V		. =	ed at ACIN 115V or less (Ref								
	CURRENT[A]	ACIN 115V-264V	84	42	28	21						
		ACIN 85-115V		ed at ACIN 115V or less (Ref								
	WATTAGE[W]	ACIN 115V-264V	1008	1008	1008	1008						
F	LINE REGULATION[mV] *2		48max	96max	144max	192max						
H	LOAD REGULATION[mV] *2		100max	150max	150max	300max						
H	RIPPLE[mVp-p]	0 to +50°C	180max	120max	150max	200max						
	*1 NIFFEE[IIIVP-P]	-20 to 0°C	240max	160max	200max	500max						
JTPUT -	RIPPLE NOISE[mVp-p]		210max	150max	200max	300max						
			270max	180max	240max	600max						
-	TEMPERATURE		120max	240max	360max	480max						
	REGULATION[mV]		180max	290max	440max	600max						
H	DRIFT[mV] *3		48max	96max	144max	192max						
H	START-UP TIME[ms]		46max 96max 144max 192max 800typ (ACIN 115V, lo=100%) 192max 192max									
H	HOLD-UP TIME[ms]		20typ (ACIN 115V, Io=10	,								
H	OUTPUT VOLTAGE ADJUSTME	NT BANGEIVI	10.80 to 13.50	20.40 to 28.50	30.60 to 40.80	40.80 to 55.20						
H	OUTPUT VOLTAGE SET		12.00 to 12.48	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92						
	OVERCURRENT PROTI			g and recovers automatically		10.00 10 10.02						
H	OVERVOLTAGE PROTE		14.40 to 17.40	28.80 to 34.80	43.20 to 52.20	57.00 to 67.20						
	OPERATING INDICA		LED (Green)		101201002120	0.100 10 07.120						
	REMOTE SENSING		Optional (Option -W, -W1)									
H	REMOTE ON/OFF		Optional (Required external power source. Option -R)									
	INPUT-OUTPUT		AC4,000V 1minute, Cutoff=20mA, 2MOPP DC500V 50MΩ min (At room temperature)									
H	INPUT-FG		AC2,000V 1minute, Cutoff=20mA, 1MOPP DC500V 50MΩ min (At room temperature)									
	OUTPUT · RC-FG	*3			<u> </u>	,						
	OUTPUT-RC		AC1,500V 1minute, Cutoff=20mA, 1MOPP DC500V 50MΩmin (At room temperature) AC500V 1minute, Cutoff=20mA, DC500V 50MΩ min (At room temperature)									
	OPERATING TEMP.,HUMID.AND	ALTITUDF *4			condensing), 3,000m (10,000 f	eet) max						
F	STORAGE TEMP.,HUMID.AN			H (Non condensing), 9,000m	0 /1 1 1 1	000,an						
JVIRONMENT –	VIBRATION			· • •	s each along X, Y and Z axes							
H	IMPACT			once each X, Y and Z axes	and g, 1 and 2 and 3							
	AGENCY APPROVAL	S	ANSI/AAMI ES60601-1,									
	AGENOT AT THOUSE		,									
······	CONDUCTED NOISE		Complies with FCC-A, VCCI-A, CISPR32-A, EN55011-A, EN55032-A Complies with IEC61000-3-2 class A									



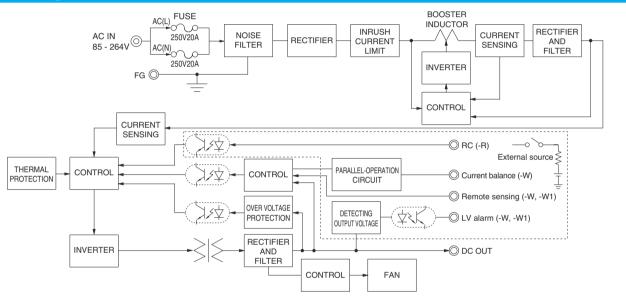


OTHERS	CASE SIZE/WEIGHT	150×61×240mm [5.91×2.40×9.45 inches] (Excluding terminal block and screw) (W×H×D) / 2.8kg max								
OTHERS	COOLING METHOD *6	Forced cooling (internal fan)								
WARRANTY	WARRANTY *7	*7 5 years (subject to the operating conditions)								
22 µ F and 0 MHz oscillos RM104. See 1.6 of In	esuit of measurement of the testing board with c 0.1 µ F placed at 150 mm from the output termin scope or a ripple-noise meter equivalent to Keiso nstruction Manual for more details. about dynamic load and input response.	nais by a 20 warm-up at 25°C. optional functions.								
Facto										

Features

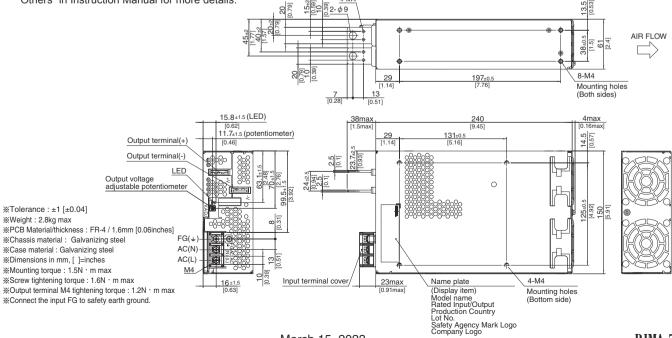
- 4kV isolation
- · Economical design
- · Suitable for BF application (Output-FG : 1MOPP, Input-Output : 2MOPP)
- · Wide temperature range (-20°C to +70°C, Refer to "Derating") · Harmonic attenuator (Complies with IEC61000-3-2 class A)
- · Universal input (AC85 264V, Refer to "Derating")
- · Low power consumption at no load

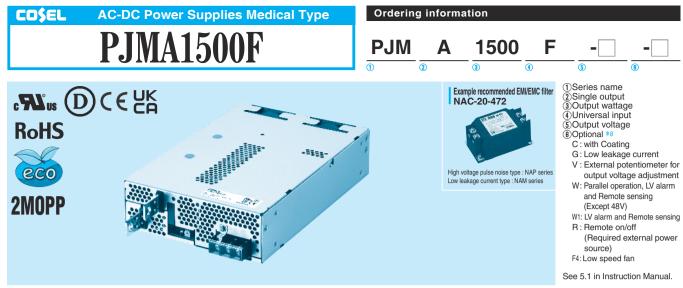
Block diagram



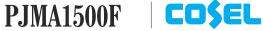
External view

The external size of -V option, -W option, -W1 option and -R option models is different from the standard model. See "5. Options and Others" in Instruction Manual for more details. 4-M4





M	IODEL		PJMA1500F-12	PJMA1500F-24	PJMA1500F-36	PJMA1500F-48					
V	OLTAGE[V]		AC85 - 264 1 ¢ (Output dera	ting is required at AC85V - 11	5V. Refer to "Derating" and inst	ruction manual 1.1)					
		ACIN 100V	/ 18typ (lo=90%)								
C	URRENT[A]	ACIN 115V	16typ (lo=100%)								
	ACIN 230V		8typ (lo=100%)								
FF	REQUENCY[Hz]		50 / 60 (47 - 63)								
		ACIN 100V	81typ (lo=90%)	84typ (Io=90%)	84typ (lo=90%)	84typ (lo=90%)					
EI	EFFICIENCY[%]	ACIN 115V	82typ (lo=100%)	85typ (lo=100%)	85typ (lo=100%)	84typ (lo=100%)					
NPUT		ACIN 230V	85typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)	87typ (lo=100%)					
		ACIN 100V	0.98typ (lo=90%)								
P	OWER FACTOR	ACIN 115V	0.98typ (lo=100%)								
		ACIN 230V	0.95typ (lo=100%)								
		ACIN 100V	15/30typ (lo=90%) (Primary	inrush current /Secondary inru	ish current) (More than 10sec	to re-start)					
IN	IRUSH CURRENT[A]	ACIN 115V	5/30typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start)								
		ACIN 230V	30/30typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 10sec to re-start)								
LE	EAKAGE CURRENT	[mA]	0.3max (ACIN 240V, 60Hz, Id	p=100%)		· · · ·					
V	OLTAGE[V]	_	12	24	36	48					
	ACIN 85-115		Output derating is required a	t ACIN 115V or less (Refer to	"Derating")						
C	URRENT[A]	ACIN 115V-264V	125	64	42	32					
		ACIN 85-115V	Output derating is required a	t ACIN 115V or less (Refer to	"Derating")						
v	/ATTAGE[W]	ACIN 115V-264V	1500	1536	1512	1536					
LI	LINE REGULATION[mV] *2		48max	96max	144max	192max					
L	LOAD REGULATION[mV] *2		100max	150max	150max	300max					
BI	IPPLE[mVp-p]	0 to +50°C	180max	120max	150max	200max					
	*1	-20 to 0℃	240max	160max	200max	500max					
	RIPPLE NOISE[mVp-p] *1	0 to +50℃	210max	150max	200max	300max					
		-20 to 0℃	270max	270max	240max	600max					
	TEMPERATURE REGULATION[mV]	0 to +50℃	120max	240max	360max	480max					
		-20 to +50°C	180max	290max	440max	600max					
DI	DRIFT[mV] *3		48max	96max	144max	192max					
S	TART-UP TIME[ms]		800typ (ACIN 115V, lo=100%)								
H	OLD-UP TIME[ms]		20typ (ACIN 115V, Io=100%)								
OU	UTPUT VOLTAGE ADJUSTMEN	T RANGE[V]	10.80 to 13.50	20.40 to 28.50	30.60 to 40.80	40.80 to 55.20					
0	UTPUT VOLTAGE SE	TTING[V]	12.00 to 12.48	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92					
0	VERCURRENT PROTE	CTION	Works over 105% of rating a	nd recovers automatically							
ROTECTION O	VERVOLTAGE PROTE	CTION[V]	14.40 to 17.40	28.80 to 34.80	43.20 to 52.20	57.00 to 67.20					
IRCUIT AND O	PERATING INDICAT	TION	LED (Green)								
OTHERS RI	EMOTE SENSING		Optional (Option -W, -W1)								
R	EMOTE ON/OFF		Optional (Required external power source. Option -R)								
IN	NPUT-OUTPUT		AC4,000V 1minute, Cutoff=20mA, 2MOPP DC500V 50MΩ min (At room temperature)								
	NPUT-FG		AC2,000V 1minute, Cutoff=2	0mA, 1MOPP DC500V 50M	Ω min (At room temperature)						
SOLATION O	UTPUT • RC-FG	*3									
0	UTPUT-RC		AC500V 1minute, Cutoff=20mA, DC500V 50MΩ min (At room temperature)								
OP	PERATING TEMP.,HUMID.AND	ALTITUDE *4	-20 to +70°C (Refer to "Derat	ing"), 20 - 90%RH (Non conde	ensing), 3,000m (10,000 feet) r	nax					
ST	FORAGE TEMP.,HUMID.AND	ALTITUDE	-20 to +75°C, 20 - 90%RH (N	Ion condensing), 9,000m (30,0	000 feet) max						
	IBRATION		10 - 55Hz, 19.6m/s2 (2G), 3m	ninutes period, 60minutes eac	h along X, Y and Z axes						
IN	ЛРАСТ		196.1m/s2 (20G), 11ms, once	e each X, Y and Z axes							
SAFETY AND A	GENCY APPROVAL	S	ANSI/AAMI ES60601-1, EN	60601-1 3rd							
NOISE CO	ONDUCTED NOISE		Complies with FCC-A, VCCI-	A, CISPR32-A, EN55011-A, E	EN55032-A						
REGULATIONS H	ARMONIC ATTENU	ATOR *5	Complies with IEC61000-3-2	class A							



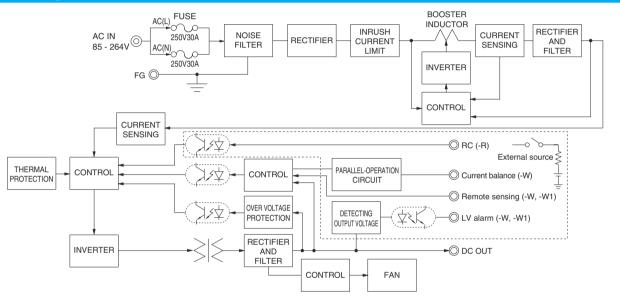


OTHERS	CASE SIZE/WEIGHT	178×61	78×61×268mm [7.01×2.40×10.55 inches] (Excluding terminal block and screw) (W×H×D) / 3.5kg max broced cooling (internal fan)								
OTHERS	COOLING METHOD *6	Forced c									
WARRANTY	WARRANTY *7	5 years (ears (subject to the operating conditions)								
of 22 µ F ar a 20 MHz o Giken RM1 See 1.6 of Ir	result of measurement of the testing board wit d0.1 µF placed at 150 mm from the output socilloscope or a ripple-noise meter equivalen 03. nstruction Manual for more details. about dynamic load and input response.	terminals by	 *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. Refer to "Derating". *5 Consult us about other classes. *6 The fan speed slows down or stops at no load. *7 See 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.						
Featu	ures										

- 4kV isolation

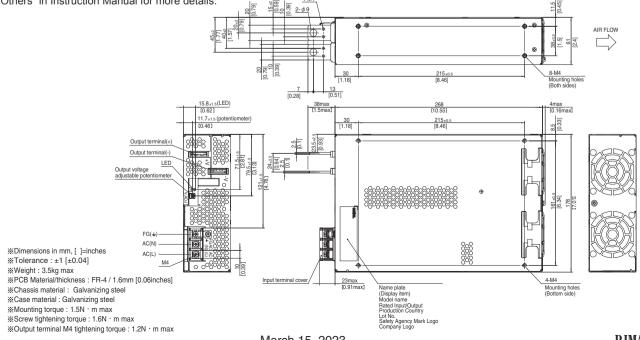
- · Economical design
- · Suitable for BF application (Output-FG : 1MOPP, Input-Output : 2MOPP)
- Wide temperature range (-20°C to +70°C, Refer to "Derating") · Harmonic attenuator (Complies with IEC61000-3-2 class A)
- · Universal input (AC85 264V, Refer to "Derating")
- · Low power consumption at no load

Block diagram

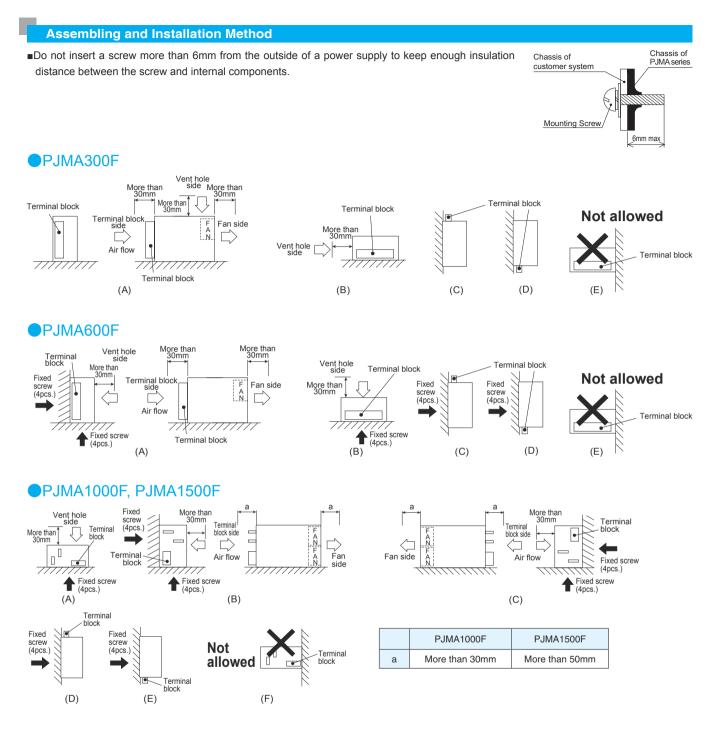


External view

The external size of -V option, -W option, -W1 option and -R option models is different from the standard model. See "5. Options and Others" in Instruction Manual for more details. 4-M4



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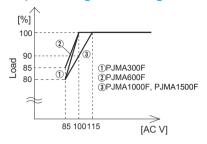
Assembling and Installation Method

- When mounting the power supply with screws, it is recommended that this be done as shown above. If other methods are used, be sure the weight of the power supply is taken into account.
- Avoid the not allowed installation method as it gives excessive stress to the mounting holes.
- Do not block air flow of the built-in fan (terminal block and ventilation hole).
- If the power supply is used in a dusty environment, use an airfilter. Make sure air flow is not blocked.
- If the built-in fan stops, thermal protection will work and the output will stop.
- The life expectancy (R(t)=90%) of the built-in fan varies depending on the operating condition.

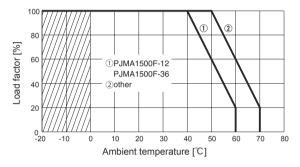
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Derating

Input voltage Derating Curve



Ambient temperature Derating Curve



In the hatched area, the specification of Ripple, Ripple Noise is different from other area.

The ambient temperature is defined as the temperature of the air (at the terminal block side) that the built-in cooling fan blows into the power supply. Please pay attention to the heat generated by the input and output wires. Please consult us for more details.

Instruction Manual

◆It is neccessary to read the "Instruction Manual" and "Before using our product" before you use our product.

 Instruction Manual
 https://en.cosel.co.jp/product/powersupply/PJMA/

 Before using our product
 https://en.cosel.co.jp/technical/caution/index.html



Basic Characteristics Data

	Oʻrrassit araathaad	cuit method Switching frequency [kHz]	Input	Rated	Inrush current	PCB/	Pattern	1	Series/Parallel operation availability	
Model	Circuit method		current [A]	input fuse	protection circuit	Material	Single sided	Double sided	Series operation	Parallel operation
PJMA300F	Active filler	60	3.9 *1	250V 10A	Thermistor	FR-4		Yes	Yes	No
	Forward converter	140	3.9 🛧 1		Thermistor	Г П-4				
	Active filler	60	7.5 * 1	250V 16A	SCR	FR-4		Yes	Yes	No
PJMA600F	Forward converter	220								INO
	Active filter	65	12.5 <mark>*</mark> 2	250V 20A	TRIAC	FR-4		Yes	Yes	*3
PJMA1000F	Forward converter	210			INIAC			res	tes	*3
PJMA1500F	Active filter	65	18.0 *1	250V 30A	TRIAC	FR-4		Yes	Vac	V 1
	Forward converter	210	10.0 * 1	200V 30A	INIAC	гК-4		res	Yes	*4

*1 The input current shown is at ACIN 100V and 100% load.

*2 The input current shown is at ACIN 100V and 90% load.

*3 Parallal operation is possible with -W option. see "5.Option and Other" is Instruction Manual.

*4 Parallal operation is possible with -W option. (Except 48V) see "5.Option and Other" is Instruction Manual.