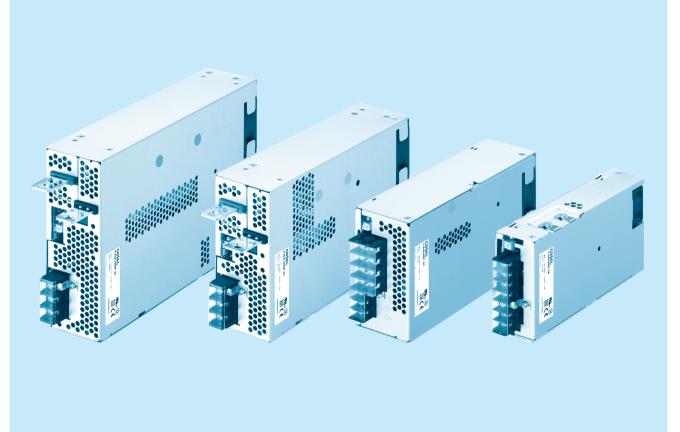




P.JMA

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

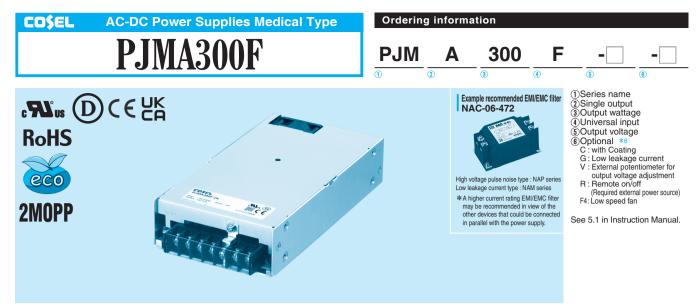
Complies with FCC-B, CISPR32-B, EN55011-B, EN55032-B, VCCI-B

(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



SPECIFICATIONS

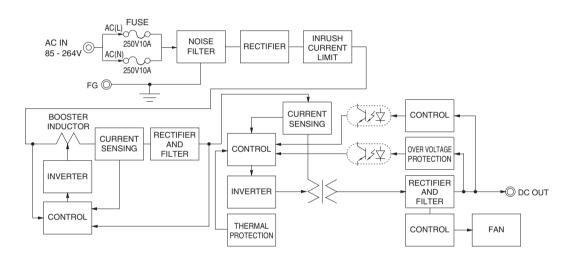
	MODEL		PJMA300F-12	PJMA300F-24	PJMA300F-36	PJMA300F-48							
	VOLTAGE[V]		AC85 - 264 1 ¢ (Output derat	ting is required at AC85V - 10	00V. Refer to "Derating" and	instruction manual 1.1)							
		ACIN 100V	3.9typ (lo=100%)										
	CURRENT[A]		3.3typ (lo=100%)										
			1.7typ (lo=100%)										
	FREQUENCY[Hz]		50 / 60 (47 - 63)										
		ACIN 100V	79typ (lo=100%)	82typ (lo=100%)	83typ (lo=100%)	82typ (lo=100%)							
	EFFICIENCY[%]		80typ (lo=100%)	83typ (lo=100%)	83typ (lo=100%)	83typ (lo=100%)							
NPUT			82typ (lo=100%)	86typ (lo=100%)	87typ (lo=100%)	86typ (lo=100%)							
			0.99typ (lo=100%)										
	POWER FACTOR			0.98typ (lo=100%)									
	I OWENT ACTON		0.95typ (lo=100%)										
			20typ (Io=100%) TA=25°C at cold start										
	INRUSH CURRENT[A]		20typ (Io=100%) TA=25°C at cold start										
		ACIN 230V	40typ (lo=100%) TA=25°C at cold start										
	LEAKAGE CURRENT		401yp (10=100%) 1A=25 C at 0.3max (ACIN 240V, 60Hz, Ic										
		[IIIA]	12	24	36	48							
	VOLTAGE[V]	ACIN 05 1001] = :		40							
	CURRENT[A]	ACIN 85-100V ACIN 100V-264V	Output derating is required at 25	12.5	8.4	6.2							
					-	6.3							
	WATTAGE[W]	ACIN 85-100V	Output derating is required at			000.1							
		ACIN 100V-264V	300	300	302.4	302.4							
	LINE REGULATION[n	-	48max	96max	144max	192max							
	LOAD REGULATION	-	100max	150max	150max	300max							
	RIPPLE[mVp-p]	0 to +50℃	120max	120max	150max	150max							
OUTPUT	*1	-10 to 0℃	160max	160max	160max	400max							
	RIPPLE NOISE[mVp-p]	0 to +50℃	150max	150max	200max	200max							
	*1	-10 to 0℃	180max	Dmax 180max 24		500max							
	TEMPERATURE REGULATION(mV)	0 to +50℃	120max			480max							
		-10 to +50℃	180max	290max	440max	600max							
	DRIFT[mV]	*2	48max	96max	144max	192max							
	START-UP TIME[ms]		300typ (ACIN 100V, Io=100%)										
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)										
	OUTPUT VOLTAGE ADJUSTMEN	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	ring[V]	12.00 to 12.48	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92							
	OVERCURRENT PROTE	CTION	Works over 105% of rating an	nd recovers automatically									
ROTECTION	OVERVOLTAGE PROTE	CTION[V]	13.80 to 16.80	27.60 to 33.60	41.40 to 50.40	55.20 to 67.20							
IRCUIT AND	OPERATING INDICAT	ΓΙΟΝ	LED (Green)										
THERS	REMOTE SENSING		Not provided										
	REMOTE ON/OFF		Optional (Required external power source. Option -R)										
	INPUT-OUTPUT • RC	*9	AC4,000V 1minute, Cutoff=20mA, 2MOPP DC500V 50MΩmin (At room temperature)										
	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											
	OPERATING TEMP., HUMID.AND	ALTITUDE *4	-20 to +70°C (Refer to "Derati		. ,	et) max							
	,		-20 to +75℃, 20 - 90%RH (N		0 // /	•							
NVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3m										
	IMPACT		196.1m/s ² (20G), 11ms, once										
SAFETY AND	AGENCY APPROVAL	S	ANSI/AAMI ES60601-1, EN6										
NOISE	CONDUCTED NOISE	-	,		=N55022-B								
IUISE			Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B Complies with IEC61000-3-2 class A										



OTHERS	CASE SIZE/WEIGHT	102×41	×190mm [4.02×1.61×7.48 inches] (Excluding terminal	bloc	k and screw) (W×H×D) / 1.0kg max							
UTHENS	COOLING METHOD *7	Forced c	rced cooling (internal fan)									
WARRANTY	WARRANTY *5	5 years (s (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 t 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 functions. *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 	* * *	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											

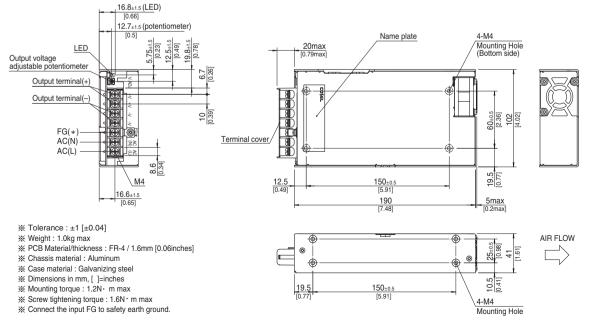
- · 4kV isolation
- · Economical design
- · Suitable for BF application (Output-FG : 1MOPP, Input-Output : 2MOPP)
- Wide temperature range (-20°C to +70°C, Refer to "Derating")
- · Harmonic attenuator (Complies with IEC61000-3-2 class A)
- · Universal input (AC85 264V, Refer to "Derating")
- · Low power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

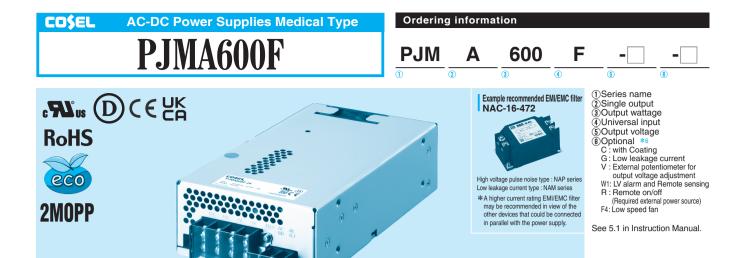
Block diagram



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.

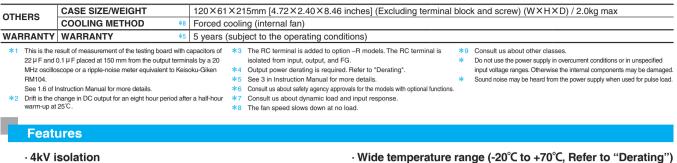




SPECIFICATIONS

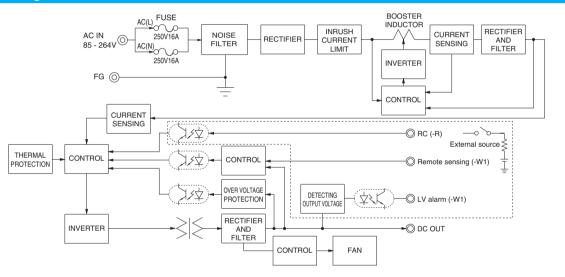
M	IODEL		PJMA600F-12	PJMA600F-24	PJMA600F-36	PJMA600F-48						
V	OLTAGE[V]		AC85 - 264 1 ϕ (Output dera	ting is required at AC85V - 10	V. Refer to "Derating" and in:	struction manual 1.1)						
		ACIN 100V	7.5typ (lo=100%)			,						
С	URRENT[A]		6.5typ (lo=100%)									
			3.2typ (lo=100%)									
FI	REQUENCY[Hz]		50 / 60 (47 - 63)									
		ACIN 100V	81typ (lo=100%)	84typ (lo=100%)	85typ (lo=100%)	85typ (lo=100%)						
E	FFICIENCY[%]		82typ (lo=100%)	85typ (lo=100%)	86typ (lo=100%)	85typ (lo=100%)						
		L	84typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)							
			0.99typ (lo=100%)									
P	OWER FACTOR	L	0.98typ (lo=100%)									
			0.95typ (lo=100%)									
				/ inrush current /Secondary ini	ush current) (More than 3se	c to re-start)						
IN	RUSH CURRENT[A]		20/40typ (lo=100%) (Primary inrush current /Secondary inrush current) (More than 3sec to re-start)									
		ACIN 230V	40/40typ (Io=100%) (Primary inrush current /Secondary inrush current) (More than 3sec to re-start)									
	LEAKAGE CURRENT[mA]		0.3max (ACIN 240V,60Hz,Io=									
	OLTAGE[V]	[]	12	24	36	48						
		ACIN 85-100V		t ACIN 100V or less (Refer to								
C	URRENT[A]	ACIN 03-100V ACIN 100V-264V		25	16.7	12.5						
		ACIN 1009-2049 ACIN 85-100V		t ACIN 100V or less (Refer to		12.0						
W	/ATTAGE[W]	ACIN 100V-264V	600	600	601.2	600						
	LINE REGULATION[mV]		48max	96max	144max							
	LINE REGULATION[mV] *7 LOAD REGULATION[mV] *7		100max	150max	150max							
		0 to +50℃	120max	120max	150max							
R	RIPPLE[mVp-p]	-20 to 0°C	160max	160max	160max							
	**		150max									
RI	IPPLE NOISE[mVp-p]	0 to +50℃ -20 to 0℃	180max	150max	200max 240max							
-	م ا			180max								
TE	MPERATURE REGULATION[mV]	0 to +50°C	120max	240max	360max							
		-20 to +50℃	180max	290max	440max							
	DRIFT[mV] *2		48max	96max	144max	192max						
	TART-UP TIME[ms]	-	300typ (ACIN 100V, Io=100%)									
	OLD-UP TIME[ms]	TRANSFOR	20typ (ACIN 100V, Io=100%)			40.00 1 50.00						
	UTPUT VOLTAGE ADJUSTMEN			21.60 to 26.40	32.40 to 39.60							
	UTPUT VOLTAGE SETT		12.00 to 12.48	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92						
	VERCURRENT PROTE		Works over 105% of rating an		44 40 1- 50 10	FF 00 + 07 00						
	VERVOLTAGE PROTE			27.60 to 33.60	41.40 to 50.40	55.20 to 67.20						
	PERATING INDICAT	IUN	LED (Green)									
	EMOTE SENSING		Optional (Option -W1) Optional (Required external power source. Option -R)									
	EMOTE ON/OFF		1 1 1	, ,		88typ (lo=100%) 88typ (lo=100%) to re-start) to re-start) 48 12.5 600 192max 300max 150max 400max 200max 500max 480max 600max 192max 500max 480max 600max 192max 55.20 to 52.80 48.00 to 49.92 55.20 to 67.20						
		*3										
SOLATION –	NPUT-FG		AC2,000V 1minute, Cutoff=20mA, 1MOPP DC500V 50MΩmin (At room temperature)									
-	UTPUT • RC-FG	*3	AC1,500V 1minute, Cutoff=20mA, 1MOPP DC500V 50MΩmin (At room temperature) AC500V 1minute, Cutoff=20mA, DC500V 50MΩmin (At room temperature)									
	UTPUT-RC	*3			, ,							
	PERATING TEMP.,HUMID.AND			ing"), 20 - 90%RH (Non conde	0/1	max						
NVIRONMENT —	TORAGE TEMP.,HUMID.AND	ALTITUDE		lon condensing), 9,000m (30,0	,							
	IBRATION	-	, , , , , , , , , , , , , , , , , , , ,	ninutes period, 60minutes eacl	along X, Y and Z axes							
	MPACT		196.1m/s ² (20G), 11ms, once									
	GENCY APPROVAL	S	ANSI/AAMI ES60601-1, EN6									
	ONDUCTED NOISE			B, CISPR32-B, EN55011-B, E	N55032-B							
REGULATIONS H	ARMONIC ATTENU	ATOR *9	Complies with IEC61000-3-2	class A								





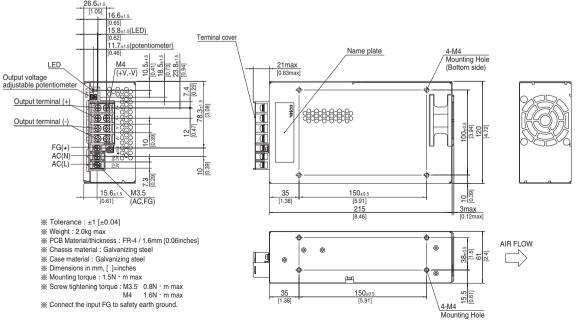
- · Economical design
- Suitable for BF application (Output-FG : 1MOPP, Input-Output : 2MOPP)
- Harmonic attenuator (Complies with IEC61000-3-2 class A)
- Universal input (AC85 264V, Refer to "Derating")
- · Low power consumption at no load

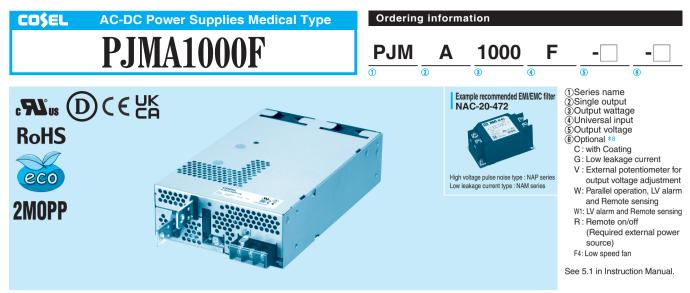
Block diagram



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.





SPECIFICATIONS

M	IODEL		PJMA1000F-12	PJMA1000F-24	PJMA1000F-36	PJMA1000F-48				
v	OLTAGE[V]				/ - 115V. Refer to "Derating" an					
		ACIN 100V	12.5typ (lo=90%)							
с	URRENT[A]	ACIN 115V	11.0typ (lo=100%)							
		ACIN 230V	5.5typ (lo=100%)							
F	REQUENCY[Hz]		50 / 60 (47 - 63)							
		ACIN 100V	81typ (lo=90%)	84typ (lo=90%)	84typ (Io=90%)	84typ (lo=90%)				
E	FFICIENCY[%]	ACIN 115V	82typ (lo=100%)	85typ (lo=100%)	85typ (lo=100%)	85typ (lo=100%)				
PUT		ACIN 230V	85typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)				
		ACIN 100V	0.98typ (lo=90%)			, , , ,				
P	OWER FACTOR	ACIN 115V	0.98typ (lo=100%)							
		ACIN 230V	0.95typ (lo=100%)							
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	y inrush current /Secondar	y inrush current) (More than 1	Osec to re-start)				
IN	NRUSH CURRENT[A]	ACIN 115V	15/30typ (lo=100%) (Prima	ary inrush current /Seconda	ary inrush current) (More than	10sec to re-start)				
		ACIN 230V	30/30typ (lo=100%) (Prima	ary inrush current /Seconda	ary inrush current) (More than	10sec to re-start)				
L	EAKAGE CURRENT	[mA]	0.3max (ACIN 240V, 60Hz,	lo=100%)		· · ·				
	OLTAGE[V]		12	24	36	d instruction manual 1.1) 84typ (lo=90%) 85typ (lo=100%) 88typ (lo=100%) 88typ (lo=100%) 98typ (lo=100%) 90th (log 10sec to re-start) 192max 300max 600max 192max 40.80 to 55.20 48.00 to 49.92 57.00 to 67.20 ure) ure) ure) ure) ure)				
		ACIN 85-115V	Output derating is required	at ACIN 115V or less (Ref	fer to "Derating")					
C	URRENT[A]	ACIN 115V-264V	84	42	28	21				
		ACIN 85-115V	Output derating is required	at ACIN 115V or less (Ref	fer to "Derating")					
N N	VATTAGE[W]	ACIN 115V-264V	1008	1008	1008	1008				
L	LINE REGULATION[mV] *2		48max	96max	144max	192max				
L	LOAD REGULATION[mV] *2		100max	150max	150max	300max				
B	RIPPLE[mVp-p]	0 to +50°C	180max	120max	150max	200max				
	*1	-20 to 0℃	240max	160max	200max	500max				
R	RIPPLE NOISE[mVp-p] *1	0 to +50℃	210max	150max	200max	300max				
		-20 to 0℃	270max	180max	240max	600max				
TE	EMPERATURE	0 to +50°C	120max	240max	360max	480max				
RE	EGULATION[mV]	-20 to +50°C	180max	290max	440max	600max				
D	DRIFT[mV] *3		48max	96max	144max	192max				
S	TART-UP TIME[ms]		800typ (ACIN 115V, lo=100)%)	·					
н	IOLD-UP TIME[ms]		20typ (ACIN 115V, Io=1009	%)						
1 5 1 ((UTPUT VOLTAGE ADJUSTME	NT 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 SET	TING[V]	12.00 to 12.48	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92				
0	VERCURRENT PROTE	ECTION	Works over 105% of rating	and recovers automatically	у					
	VERVOLTAGE PROTE	CTION[V]	14.40 to 17.40	28.80 to 34.80	43.20 to 52.20	57.00 to 67.20				
	PERATING INDICAT	TION	LED (Green)							
OUTPUT R TI R C S F O O O O O O O C I R O I C I C I C I C I C I C I C I O O O O	EMOTE SENSING		Optional (Option -W, -W1)							
R	EMOTE ON/OFF		Optional (Required externa	al power source. Option -R)						
IN	NPUT-OUTPUT		AC4,000V 1minute, Cutoff	=20mA, 2MOPP DC500V	/ 50M Ω min (At room temperat	ure)				
	NPUT-FG		AC2,000V 1minute, Cutoff=20mA, 1MOPP DC500V 50MΩ min (At room temperature)							
	UTPUT • RC-FG	*3	AC1,500V 1minute, Cutoff	=20mA, 1MOPP DC500V	$50M\Omega$ min (At room temperatu	ire)				
0	UTPUT-RC		AC500V 1minute, Cutoff=2							
OF	PERATING TEMP.,HUMID.AND	ALTITUDE *4	-20 to +70°C (Refer to "Der	ating"), 20 - 90%RH (Non	condensing), 3,000m (10,000 f	eet) max				
	TORAGE TEMP.,HUMID.ANI	D ALTITUDE	-20 to +75℃, 20 - 90%RH	(Non condensing), 9,000m	(30,000 feet) max					
	IBRATION		10 - 55Hz, 19.6m/s² (2G), 3	3minutes period, 60minutes	s each along X, Y and Z axes					
IN	MPACT		196.1m/s2 (20G), 11ms, on	ce each X, Y and Z axes						
AFETY AND A	GENCY APPROVAL	.s	ANSI/AAMI ES60601-1, E	N60601-1 3rd						
	ONDUCTED NOISE		Complies with FCC-A, VCC	CI-A, CISPR32-A, EN5501	1-A, EN55032-A					
EGULATIONS H	IARMONIC ATTENU	ATOR *5	Complies with IEC61000-3	-2 class A						



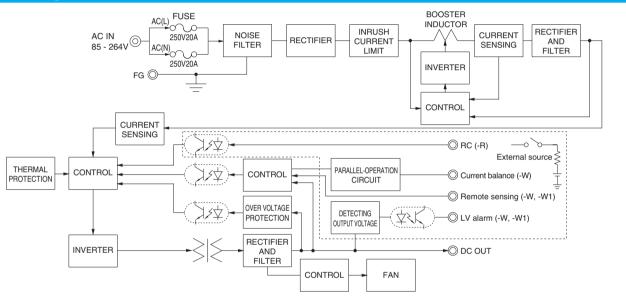


OTHERS	CASE SIZE/WEIGHT	150×61×240mm [5.91×2.40×9.45 inches] (Excluding terminal	block and screw) (W×H×D) / 2.8kg max						
OTHERS	COOLING METHOD *6	Forced cooling (internal fan)							
WARRANTY	Y WARRANTY *7 5 years (subject to the operating conditions)								
22 µ F and MHz oscillo RM104. See 1.6 of I	esuit 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 Keisi nstruction Manual for more details. about dynamic load and input response.	als by a 20 warm-up at 25°C.	 *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

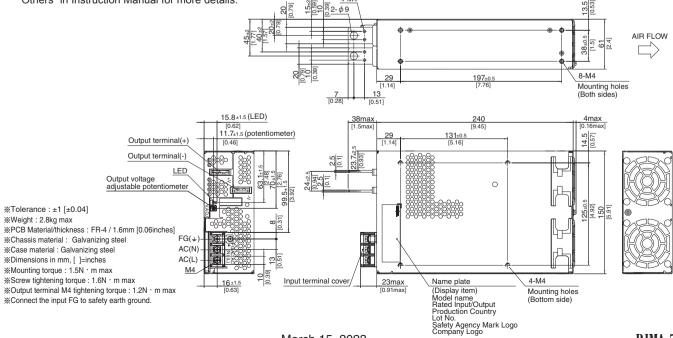
- 4kV isolation
- · Economical design
- · Suitable for BF application (Output-FG : 1MOPP, Input-Output : 2MOPP)
- · Wide temperature range (-20°C to +70°C, Refer to "Derating") · Harmonic attenuator (Complies with IEC61000-3-2 class A)
- · Universal input (AC85 264V, Refer to "Derating")
- · Low power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

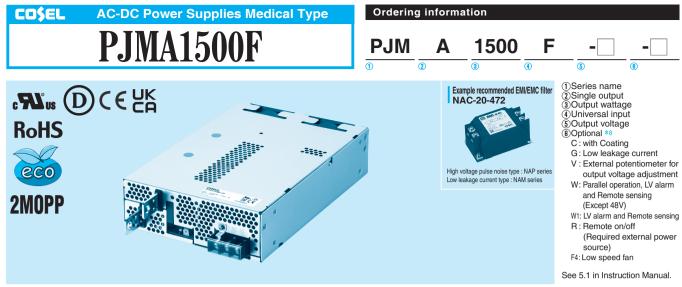
Block diagram



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

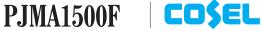




SPECIFICATIONS

M	ODEL		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%)									
CI	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%)						
EF	FFICIENCY[%]	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%)		· · · · · · · · · · · · · · · · ·							
PC	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	sh current) (More than 10sec	to re-start)						
IN	RUSH CURRENT[A]	ACIN 115V	15/30typ (lo=100%) (Primary	/ inrush current /Secondary in	rush current) (More than 10se	c to re-start)						
		ACIN 230V	30/30typ (lo=100%) (Primary	/ inrush current /Secondary in	rush current) (More than 10se	c to re-start)						
OUTPUT	LEAKAGE CURRENT[mA]		0.3max (ACIN 240V, 60Hz, Id	o=100%)		•						
V	OLTAGE[V]	_	12	24	36	instruction manual 1.1) 84typ (lo=90%) 84typ (lo=100%) 87typ (lo=100%) 87typ (lo=100%) sec to re-start) 0sec to re-start) 0sec to re-start) 48 32 1536 192max 300max 200max 500max 600max 192max 40.80 to 55.20 48.00 to 49.92 57.00 to 67.20 re) e)						
		ACIN 85-115V	Output derating is required a	t ACIN 115V or less (Refer to	"Derating")							
	URRENT[A]	ACIN 115V-264V	125	64	42	32						
	WATTACEIWI	ACIN 85-115V	Output derating is required a	t ACIN 115V or less (Refer to	"Derating")							
vv	ATTAGE[W]	ACIN 115V-264V	1500	1536	1512	1536						
LI	LINE REGULATION[mV] *2		48max	96max	144max	192max						
LC	LOAD REGULATION[mV] *2		100max	150max	150max	300max						
BI	IPPLE[mVp-p]	0 to +50°C	180max	120max	150max	200max						
	*1	-20 to 0°C	240max	160max	200max	500max						
	RIPPLE NOISE[mVp-p] *1	0 to +50℃	210max	150max	200max	300max						
		-20 to 0℃	270max	270max	240max	600max						
		0 to +50℃	120max	240max	360max	480max						
IEI	MPERATURE REGULATION[mV]	-20 to +50°C	180max	max 290max 440max		600max						
DI	DRIFT[mV] *3		48max	96max	144max	192max						
ST	TART-UP TIME[ms]		800typ (ACIN 115V, Io=100%)									
H	OLD-UP TIME[ms]		20typ (ACIN 115V, lo=100%))								
OUTPUT F OUTPUT F PROTECTION CIRCUIT AND OTHERS F ISOLATION	ITPUT 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						
OL	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		84typ (lo=90%) 84typ (lo=100%) 87typ (lo=100%) 87typ (lo=100%) 87typ (lo=100%) ec to re-start) ec to re-start) ec to re-start) 48 32 1536 192max 300max 200max 500max 300max 600max 48.00 to 55.20 48.00 to 49.92 57.00 to 67.20						
	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 OI	PERATING INDICAT	TION	LED (Green)									
THERS RI	EMOTE SENSING		Optional (Option -W, -W1)			84typ (lo=90%) 84typ (lo=100%) 87typ (lo=100%) 87typ (lo=100%) 87typ (lo=100%) ec to re-start) ec to re-start) ec to re-start) 48 32 1536 192max 300max 200max 500max 300max 600max 48.00 to 55.20 48.00 to 49.92 57.00 to 67.20						
RI	EMOTE ON/OFF		Optional (Required external	power source. Option -R)								
IN	IPUT-OUTPUT		AC4,000V 1minute, Cutoff=2	20mA, 2MOPP DC500V 50M	Ω min (At room temperature)							
	IPUT-FG		AC2,000V 1minute, Cutoff=20mA, 1MOPP DC500V 50MΩ min (At room temperature)									
	UTPUT • RC-FG	*3										
0	UTPUT-RC		AC500V 1minute, Cutoff=20	mA, DC500V 50M Ω min (At r	oom temperature)							
OP	ERATING TEMP., HUMID.AND	ALTITUDE *4	-20 to +70°C (Refer to "Derat	ting"), 20 - 90%RH (Non conde	ensing), 3,000m (10,000 feet) r	nax						
ST	ORAGE TEMP., HUMID.AND	ALTITUDE	-20 to +75°C, 20 - 90%RH (N	Ion condensing), 9,000m (30,0	000 feet) max							
	BRATION		10 - 55Hz, 19.6m/s2 (2G), 3m	ninutes period, 60minutes eac	h along X, Y and Z axes							
IM	IPACT		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								
IOISE 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								

March 15, 2023





OTHERS	CASE SIZE/WEIGHT	178×61	×268mm [7.01×2.40×10.55 inches] (Excluding terminal	blo	ck and screw) (W×H×D) / 3.5kg max							
OTHERS	COOLING METHOD *6	Forced c	cooling (internal fan)									
WARRANTY	WARRANTY *7	5 years (ars (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 d 0.1 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											

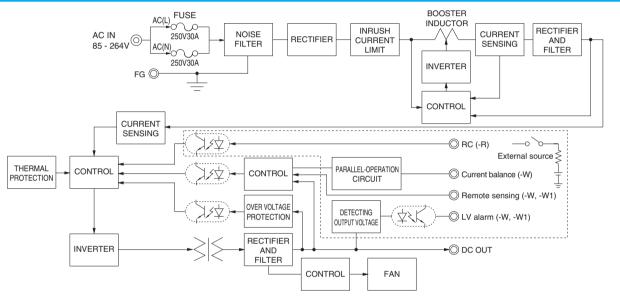
- 4kV isolation

- · 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)

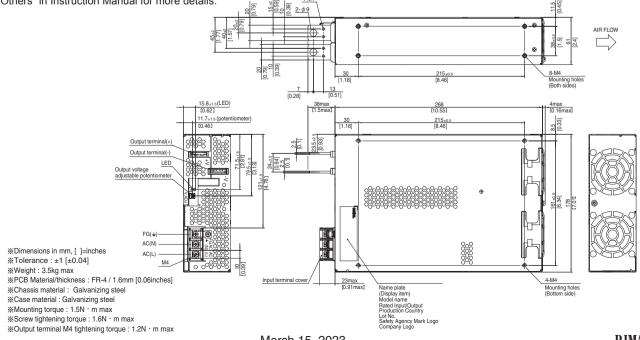
- · Universal input (AC85 264V, Refer to "Derating")
- · Low power consumption at no load

Block diagram

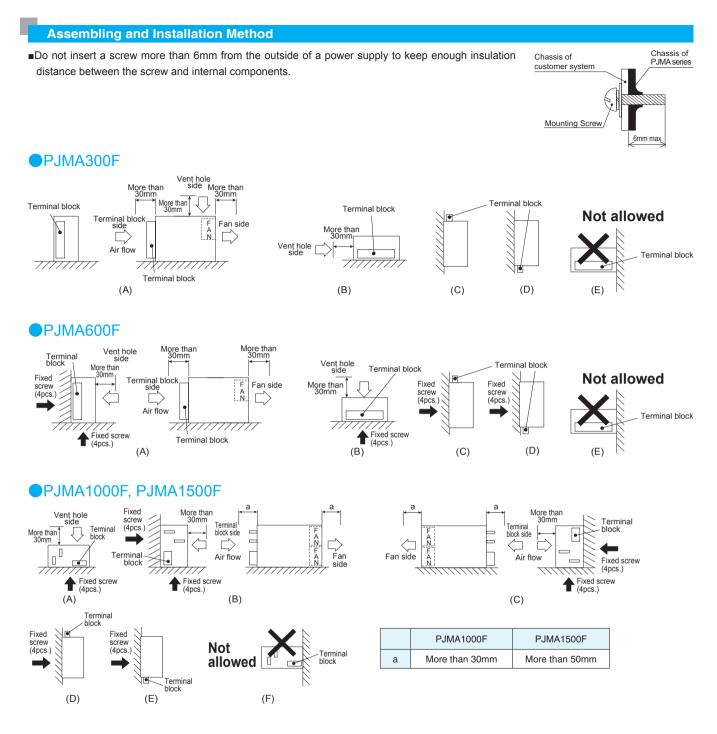


External view

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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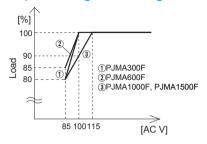
Assembling and Installation Method

- 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.

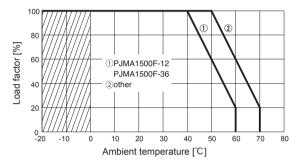
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Derating

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

		Switching	Input	Rated	Inrush current	PCB/	Patterr	Series/Parallel operation availability		
Model	Circuit method	frequency current [kHz] [A]		input fuse	protection circuit	Material	Single sided	Double sided	Series operation	Parallel operation
PJMA300F	Active filler	60	3.9 *1	0501/404	Thermistor	FB-4		Yes	Yes	No
	Forward converter	140	3.9 1	250V 10A	Thermistor	ГП-4				NO
	Active filler	60	7.5 * 1	250V 16A	SCR	FR-4		Yes	Yes	No
PJMA600F	Forward converter	220								INO
PJMA1000F	Active filter	65	12.5 *2	250V 20A	TRIAC	FR-4		Yes	Yes	*3
PJINATUUUP	Forward converter	210	12.0 *2					res		~ 3
	Active filter	65	18.0 *1	0501/004	TRIAC	FR-4		Yes	Yes	* 1
PJMA1500F	Forward converter	210	10.0 🛧 1	250V 30A	INIAC					*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.

Mouser Electronics

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 PJMA600F-48-F

 F4
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 PJMA600F-36-C
 PJMA600F-36-F4
 PJMA600F-36-G
 PJMA600F-48-F4

 PJMA600F-48-C
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 PJMA1000F-12-W1
 PJMA1000F-24-C
 PJMA300F-36-V
 PJMA300F-36-V
 PJMA300F-36-V
 PJMA300F-36-V
 PJMA300F-36-V
 PJMA300F-24-R
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 PJMA300F-12-G
 PJMA300F-12-R

 PJMA600F-48-V
 PJMA300F-24-C
 PJMA300F-24-F4
 PJMA300F-12-F4
 PJMA600F-36-W1
 PJMA600F-48-R

 PJMA600F-48-V
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 PJMA300F-12-C
 PJMA300F-12-F4
 PJMA600F-24-V
 PJMA600F-48-R

 PJMA600F-36-R
 PJMA1000F-12-G
 PJMA1000F-12-C
 PJMA600F-36-V
 PJMA1000F-48-W
 PJMA1000F-48-W1