

	MODEL		PLA15F-5	PLA15F-12	PLA15F-15	PLA15F-24				
	VOLTAGE[V]		AC85 - 264 1 ¢ (Output de	rating is required at AC85V	- 115V. See 1.1 and 3.2 in Inst	ruction Manual) *3				
		ACIN 100V	0.4typ (lo=90%)							
	CURRENT[A]	ACIN 115V	0.4typ (lo=100%)							
		ACIN 230V	0.25typ (lo=100%)							
	FREQUENCY[Hz]		50 / 60 (47 - 63)							
		ACIN 100V	72.5typ (lo=90%)	75.5typ (lo=90%)	77.0typ (lo=90%)	78.0typ (lo=90%)				
NPUT	EFFICIENCY[%]	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 (lo=90%) Ta=25℃ at	cold start		1				
	INRUSH CURRENT[A]	ACIN 115V	16typ (lo=100%) Ta=25℃ a	at cold start						
		ACIN 230V	32typ (lo=100%) Ta=25°C a	at cold start						
	LEAKAGE CURRENT	[mA]	0.30max (ACIN 115V / 240	V, 60Hz, Io=100%, Accordir	ng to IEC60950-1 and DEN-AN	l)				
	VOLTAGE[V]		5	12	15	24				
	CURRENT[A]		3	1.3	1	0.7				
	WATTAOF	ACIN 85-115V	Output derating is required	at ACIN 115V or less (refer	to instruction manual 3.2)					
	WATTAGE[W]	ACIN 115V-264V	15.0	15.6	15.0	16.8				
	LINE REGULATION[n	nV] *4	20max	48max	60max	96max				
	LOAD REGULATION	mV] *4	40max	100max	120max	150max				
		0 to +50°C	80max	120max	120max	120max				
	RIPPLE[mVp-p] *1	-10 to 0°C	140max	160max	160max	160max				
		lo=0 to 35%	160max	240max	240max	280max				
UTPUT	RIPPLE NOISE[mVp-p] *1	0 to +50°C	120max	150max	150max	150max				
		-10 to 0℃	160max	180max	180max	180max				
		lo=0 to 35%	240max	300max	300max	320max				
		0 to +50℃	50max	120max	150max	240max				
	TEMPERATURE REGULATION[mV]		60max	150max	180max	290max				
	DRIFT[mV]	*2	20max	48max	60max	96max				
	START-UP TIME[ms]		200typ (ACIN 115V, Io=100%) *Start-up time is 700 ms typ for less than 1 minute of applying input again from turning off the input voltage							
	HOLD-UP TIME[ms]		20typ (ACIN 115V, Io=1009							
	OUTPUT VOLTAGE ADJUSTME	NT RANGE[V]		10.80 to 13.20	13.50 to 16.50	21.60 to 26.40				
	OUTPUT VOLTAGE SETT		5.00 to 5.15	12.00 to 12.48	15.00 to 15.60	24.00 to 24.96				
	OVERCURRENT PROTI		Works over 105% of rating							
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				
IRCUIT AND	OPERATING INDICAT		LED (Green)	1						
THERS	REMOTE SENSING		Not provided							
	REMOTE ON/OFF		Not provided							
	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)							
OLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)							
	OUTPUT-FG		AC500V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At room temperature)							
	OPERATING TEMP., HUMID.AND	ALTITUDE *5								
	STORAGE TEMP, HUMID AND ALTITUDE		-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000 feet) max							
VVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axes							
	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axes							
AFETY AND	AGENCY APPROVAL	s			78. UL508 (Except option -J) C	omplies with DEN-AN				
	AGENCY APPROVALS UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178, UL508 (Except option -J) Complies with DEN-AN CONDUCTED NOISE Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B									
IOISE										



OTHERS	CASE SIZE/WEIGHT 38×80×73mm [1.50×3.15×2.87 ii			s] (Excluding terminal block and screw) (W×H×D) / 250g max			
UTHENS	COOLING METHOD	Convection					
WARRANTY	WARRANTY *6	rears (subject to the operating conditions)					
mm from th Giken RM1 See 1.6 of When the cause ripp	he output terminals by a 20 MHz oscilloscope 103. f Instruction Manual for more details.			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. Parallel operation is not possible with this mode.			
*3 Output pov*4 Consult us	ver derating is required. As for DC input, cons	It us for advice. sure the output voltage by using the average mode	*	Sound noise may be heard from the power supply when used for pulse 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 ϕ (Output dera	ting is required at AC85V - 1	15V. See 1.1 and 3.2 in Instr	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 (lo=90%)	80.0typ (Io=90%)	81.0typ (lo=90%)	82.5typ (lo=90%)			
NPUT	EFFICIENCY[%]	ACIN 115V	74.0typ (lo=100%)	80.5typ (lo=100%)	81.5typ (lo=100%)	83.0typ (lo=100%)			
		ACIN 230V	77.0typ (lo=100%)	81.0typ (lo=100%)	82.0typ (lo=100%)	83.5typ (lo=100%)			
		ACIN 100V	16typ (Io=90%) Ta=25℃ at c	old start					
	INRUSH CURRENT[A]	ACIN 115V	16typ (Io=100%) Ta=25℃ at	cold start					
		ACIN 230V	32typ (Io=100%) Ta=25℃ at	cold start					
	LEAKAGE CURRENT	[mA]	0.65max (ACIN 115V / 240V,	60Hz, Io=100%, According t	o IEC60950-1 and DEN-AN)			
	VOLTAGE[V]		5	12	15	24			
	CURRENT[A]		6	2.5	2	1.3			
	WATTAGE[W]	ACIN 85-115V	Output derating is required a	t ACIN 115V or less (refer to	instruction manual 3.2)				
	WATTAGE[W]	ACIN 115V-264V	30.0	30.0	30.0	31.2			
	LINE REGULATION[m	וV] *4	20max	48max	60max	96max			
	LOAD REGULATION[mV]		40max	100max	120max	150max			
		0 to +50℃	80max	120max	120max	120max			
	RIPPLE[mVp-p] *1	-10 to 0℃	140max	160max	160max	160max			
DUTPUT	RIPPLE NOISE[mVp-p] *1	0 to +50℃	120max	150max	150max	150max			
		-10 to 0℃	160max 180max 180max 180max 180max						
		0 to +50℃	50max	120max	150max	240max			
	TEMPERATURE REGULATION[mV] -10 to +50°C		60max 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	nd 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)						
DTHERS	REMOTE SENSING		Not provided						
	REMOTE ON/OFF		Not provided						
	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At room temperature)						
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)						
	OUTPUT-FG		AC500V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At room temperature)						
	OPERATING TEMP., HUMID. AND	ALTITUDE *5	-20 to +70°C, 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max						
NVIRONMENT	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						
	IMPACT 196.1m/s ² (20G), 11ms, once each X, Y and Z axes								
SAFETY AND	AGENCY APPROVAL	s	UL60950-1, C-UL (CSA6095	0-1), EN60950-1, EN50178,	UL508 (Except option -J) Co	omplies with 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	class A					



OTHERS	CASE SIZE/WEIGHT	38×80×88mm [1.50×3.15×3.46 i	nche	s] (Excluding terminal block and screw) (W×H×D) / 330g max
COOLING METHOD		Convection		
WARRANTY	WARRANTY *6	5 years (subject to the operating cor	ditior	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	Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.			Parallel operation is not possible with this mode.
*3 Output pow	Output power derating is required. As for DC input, 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	ting is required at AC85V - 11	5V. See 1.1 and 3.2 in Instru	uction Manual) *3			
		ACIN 100V	0.6typ (lo=90%)	0.7typ (lo=90%)					
c	CURRENT[A]	ACIN 115V	0.6typ (lo=100%)	6typ (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 (Io=90%)	80.0typ (lo=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%)					
		ACIN 230V	0.85typ (lo=100%)	0.87typ (lo=100%)					
		ACIN 100V	16typ (lo=90%) Ta=25℃ at c	cold start					
	INRUSH CURRENT[A]	ACIN 115V	16typ (lo=100%) Ta=25℃ at						
		ACIN 230V	32typ (lo=100%) Ta=25℃ at	cold start					
	LEAKAGE CURRENT	[mA]	, ,	, 60Hz, Io=100%, According to	o IEC60950-1 and DEN-AN)				
	VOLTAGE[V]		5	12	15	24			
	CURRENT[A]		8	4.3	3.5	2.2			
		ACIN 85-115V	Output derating is required a	t ACIN 115V or less (refer to i	instruction manual 3.2)				
	WATTAGE[W]	ACIN 115V-264V	40.0	51.6	52.5	52.8			
	LINE REGULATION[n	nV] *4	20max	48max	60max	96max			
	LOAD REGULATION	mV] *4	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			
		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=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	nd 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		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)						
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At room temperature)						
	OUTPUT-FG		AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At room temperature)						
	OPERATING TEMP., HUMID.AND	ALTITUDE *5	-20 to +70°C, 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max						
ENVIRONMENT	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						
	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axes						
SAFETY AND	AGENCY APPROVAL	s	UL60950-1, C-UL (CSA6095	50-1), EN60950-1, EN50178,	UL508 (Except option -J) Co	mplies with DEN-AN			
NOISE	CONDUCTED NOISE		Complies with FCC-B, VCCI	-B, CISPR22-B, EN55011-B, I	EN55022-B				
REGULATIONS	HARMONIC ATTENU		Complies with IEC61000-3-2						



OTHERS CASE SIZE/WEIGHT 38×80×99mm [1.50×3.15×3			90 inches] (Excluding terminal block and screw) (W×H×D) / 400g max				
OTHERS	COOLING METHOD	Convection					
WARRANTY	ARRANTY WARRANTY *6 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-	*8 *	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 Output pov	ver derating is required. As for DC input, cons	ult 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.						
		M					

*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		* Please consider "PBA PLA100F-12	PLA100F-15	PLA100F-24	PLA100F-36	PLA100F-48	
			at defating is required i	1130.0001.			
CUBBENTIAL							
CONTENTIA							
ERECHENCVIH-1	AGIN 2001						
Theochor[h2]	ACIN 100V	, ,	83tvn (Io-90%)	85tvp (Io-90%)	86tyn (Io-90%)	86typ (lo=90%)	
EEEICIENCVI%1		, , ,				86typ (lo=100%)	
						89typ (lo=100%)	
			00typ (10=100 /8)	00typ (10=100 /8)	09typ (10=10076)	03typ (10=100 /8	
DOWER EACTOR							
FOWENFACTOR		, ,	Power factor correction	is stopped at AC250V a	n moro		
		71 (7		i is slopped at AC250V t	or more.		
		, ,					
INRUSH CURRENT[A]		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
		, ,		According to IECococc			
	[ina]					48	
VOLIAGE[V]	ACIN 05 1451					40	
CURRENT[A]			1			0.1	
						2.1	
WATTAGE[W]				`	,	100.0	
						100.8	
-						192max	
					150max	300max	
[mV] *4			1				
RIPPLE[mVp-p]						150max	
*1						400max	
lo: load factor						500max	
RIPPLE NOISE[mVp-p]						200max	
*1					240max	500max	
lo: load factor	lo=0 to 30%	600max	600max	600max	600max	600max	
TEMPERATURE REGULATION(mV)			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, Io	=100%) Ta=25℃				
HOLD-UP TIME[ms]		20typ (ACIN 115V, lo=	100%)				
OUTPUT VOLTAGE ADJUSTMEN	NT 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	ating 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	ION	LED (Green)					
REMOTE SENSING		Not provided					
REMOTE ON/OFF		Optional (Required external power source. Option -R)					
INPUT-OUTPUT • RC	*9	AC3,000V 1minute, C	utoff current = 10mA, D	C500V 50M Ω min (At r	pom temperature)		
		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)					
OUTPUT-RC	*9	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At room temperature)					
	ALTITUDE *5						
, · · · · · · · · · · · · · · · · · · ·		-20 to $+75^{\circ}$ C, 20 - 90%RH (Non condensing), 9,000m (30,000 feet) max					
STORAGE TEMP., HUMID.AND ALTITUDE							
VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axes					
		196.1m/s ² (20G), 11ms, once each X, Y and Z axes					
IMPACT	s	· · · · ·			cent option - 1) Complian	with DEN-AN	
	S	UL60950-1, C-UL (CS	A60950-1), EN60950-		cept option -J) Complies	with DEN-AN	
-	VOLTAGE[V] CURRENT[A] WATTAGE[W] LINE REGULATION[n LOAD REGULATION [mV] *4 RIPPLE[mVp-p] *1 lo: load factor RIPPLE NOISE[mVp-p] *1 lo: load factor RIPPLE NOISE[mVp-p] *1 lo: load factor TEMPERATURE REGULATION[mV] DRIFT[mV] START-UP TIME[ms] HOLD-UP TIME[ms] OUTPUT VOLTAGE ADJUSTMEI OUTPUT VOLTAGE PROTE OVERVOLTAGE PROTE OPERATING INDICAT REMOTE SENSING REMOTE ON/OFF INPUT-OUTPUT • RC- INPUT-RC OUTPUT • RC-FG OUTPUT-RC	ACIN 100V CURRENT[A] ACIN 100V ACIN 115V ACIN 115V ACIN 200V FREQUENCY[H2] EFFICIENCY[%] ACIN 100V POWER FACTOR ACIN 100V POWER FACTOR ACIN 100V POWER FACTOR ACIN 100V INRUSH CURRENT[A] ACIN 100V VOLTAGE[V] ACIN 85-115V CURRENT[A] ACIN 85-115V VOLTAGE[W] ACIN 85-115V VOLTAGE[W] ACIN 85-115V VOLTAGE[W] ACIN 85-115V MACIN 115V284V ACIN 85-115V MACIN 115V284V ACIN 85-115V MACIN 85-115V ACIN 85-115V MACIN 86-115V ACIN 85-115V MACIN 115V284V ACIN 85-115V MACIN 8100[MV] *4 LOAD REGULATION Io-30 to 30% [mV] *4 LOAD REGULATION Io-30 to 30% [mV] *4 LOAD REGULATION[mV] 0 to 440°C Io: load factor Io-0 to 30% IPPLE[mVP-P] 0 to 440°C	ACIN 100V 1.2typ (I0=90%) CURRENT[A] ACIN 115V 1.1typ (I0=100%) ACIN 115V 1.1typ (I0=100%) ACIN 200V 0.6typ (I0=100%) FREQUENCY[Hz] 50 / 60 (47 - 63) ACIN 100V 82typ (I0=90%) ACIN 100V 82typ (I0=100%) ACIN 100V 0.98typ (I0=100%) ACIN 200V 0.98typ (I0=100%) ACIN 200V 0.99typ (I0=100%) ACIN 200V 0.99typ (I0=100%) ACIN 200V 0.99typ (I0=100%) ACIN 200V 0.99typ (I0=100%) ACIN 200V 0.95typ (I0=100%) Ta=25 ACIN 115V 16typ (I0=90%) Ta=25 ACIN 200V 22typ (I0=100%) Ta=25 ACIN 200V 32typ (I0=100%) Ta=25 ACIN 200V 32typ (I0=100%) Ta=25 ACIN 15V 10typ (I0=90%) Ta=25 ACIN 200V 32typ (I0=100%) Ta=25 ACIN 200V	ACIN 100V 1.2typ (10=90%) CURRENT[A] ACIN 115V 1.1typ (10=100%) FREQUENCY[Hz] 50 / 60 (47 - 63) BEFFICIENCY[%] ACIN 100V 82typ (10=90%) 83typ (10=100%) ACIN 100V 82typ (10=100%) 83typ (10=100%) POWER FACTOR ACIN 115V 0.98typ (10=100%) 86typ (10=100%) ACIN 100V 0.98typ (10=100%) 86typ (10=100%) ACIN 101V 0.98typ (10=100%) 7a=25°C at cold start ACIN 202V 0.95typ (10=100%) Ta=25°C at cold start ACIN 202V 0.95typ (10=100%) Ta=25°C at cold start LEAKAGE CURRENT[mA] 0.75max (ACIN 115V / 240V, 60Hz, 10=100%) VOLTAGE[V] 12 15 CURRENT[A] ACIN 5118V Output derating is required at ACIN 115V or 1 ACIN 5118V Output derating is required at ACIN 115V or 1 ACIN 5118V Output derating is required at ACIN 115V or 1 ACIN 5118V Output derating is required at ACIN 115V or 1 ACIN 5118V Output derating is required at ACIN 115V or 1 ACIN 5118V Output derating is required at ACIN 115V or 1 ACIN 5118V	ACN 100V 1.2typ (lo=90%) ACN 115V 1.1typ (lo=100%) ACN 115V 1.1typ (lo=100%) FREQUENCY[Hz] S0 / 60 (47 - 63) EFFICIENCY[%] ACN 100V 82typ (lo=100%) 83typ (lo=100%) ACN 100V 82typ (lo=100%) 83typ (lo=100%) 85typ (lo=100%) ACN 100V 0.98typ (lo=00%) 83typ (lo=100%) 88typ (lo=100%) ACN 100V 0.98typ (lo=100%) 80typ (lo=100%) 80typ (lo=100%) ACN 100V 0.98typ (lo=00%) Power factor correction is stopped at AC250V of AC110V (0.98typ (lo=100%)) Teactor at AC250V of AC110V (0.98typ (lo=100%)) ACN 100V 0.98typ (lo=100%) Ta=25C at cold start ACN 115V of Isso (second start LEAKAGE CURRENT[mA] 0.75max (AC1N 115V / 240V, 60Hz, lo=100%, According to IEC6095C VOLTAGE[V] 12 15 24 CURRENT[A] ACN 85187 Output derating is required at AC1N 115V or less (refer to instruction IAN115K8W) 8.4 6.7 4.3 WATTAGE[W] 400.8 100.5 103.2 103.2 103.2 LINE REGULATION[mV] #4 8max 60max 120max	CURRENT[A] ACM 100V 1.2typ (lo=00%) ACM 12V FREQUENCY[Hz] S0/ 60 (47 - 63) FREQUENCY[Hz] S0/ 60 (47 - 63) CURRENT[A] ACM 11V S2by (lo=00%) 83typ (lo=100%) 85typ (lo=00%) EFFICIENCY[%] ACM 11V 82by (lo=00%) 83typ (lo=100%) 85typ (lo=100%) 85typ (lo=100%) ACM 10V 0.98typ (lo=00%) 80typ (lo=100%) 80typ (lo=100%) 80typ (lo=100%) ACM 10V 0.98typ (lo=00%) 7.200 (lo=90%) 80typ (lo=100%) 80typ (lo=100%) ACM 10V 0.98typ (lo=00%) 7.200 (lo=90%) 80typ (lo=100%) 80typ (lo=100%) ACM 10V 0.98typ (lo=00%) 7.200 (lo=90%) 80typ (lo=100%) 80typ (lo=100%) ACM 10V 0.98typ (lo=00%) 7.200 (lo=90%) 80typ (lo=100%) 80typ (lo=100%) ACM 11VV 0.98typ (lo=00%) 7.200 (lo=90%) 80typ (lo=100%) 80typ (lo=100%) CURRENT[A] ACM 15W 0.98typ (lo=100%) 7.200 (lo=10%) 7.200 (lo=10%) CURRENT[A] ACM 15W 0.98typ (lo=100%) 7.200 (lo=10%) 7.200 (lo=10%)	



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 µF and 0.1 µF placed at 150 nm 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 b beyond the specifications. change in DC output for an eight hour period a	e *3 Output power derating is required. As for DC input, consult us for advice. isolated from input, output, and FG. e meter *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 burs operation at 30% load or less. Do not use the power supply in overcurrent conditions or in unspecified inareal. ss is *5 Output power derating is required. See 3.2 in Instruction Manual. * Parallel operation is not possible with this mode. ripple *6 See 3.3 in Instruction Manual for more details. * Soutput power average mode of the models with optional functions.						

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.





N	IODEL		PLA150F-12	PLA150F-15	PLA150F-24	PLA150F-36	PLA150F-48		
	OLTAGE[V]					1 and 3.2 in Instruction M			
-	ACIN 100V		1.7typ (lo=90%)				landal)		
c	URRENT[A]	ACIN 115V	1.6typ (lo=100%)						
		ACIN 230V	0.8typ (lo=100%)						
F	REQUENCY[Hz]		50 / 60 (47 - 63)	-					
Ľ.		ACIN 100V	84typ (lo=90%)	84typ (lo=90%)	87typ (lo=90%)	87typ (lo=90%)	87typ (lo=90%)		
E	FFICIENCY[%]	ACIN 115V	84typ (lo=100%)	84typ (lo=100%)	87typ (lo=100%)	87typ (lo=100%)	87typ (lo=100%)		
		ACIN 230V	87typ (lo=100%)	87typ (lo=100%)	90typ (lo=100%)	90typ (lo=100%)	90typ (lo=100%)		
		ACIN 100V	0.98typ (lo=90%)	0/130 (10-100/0)		000000 (100 700 70)	00typ (10=10070)		
P	OWER FACTOR	ACIN 115V	0.98typ (lo=100%)						
	OWENTAOTON	ACIN 230V	, ,	Power factor correction	is stopped at AC250V of	or more			
-		ACIN 200V	16typ (lo=90%) Ta=25						
	NRUSH CURRENT[A]	ACIN 100V	16typ (lo=100%) Ta=2						
"		ACIN 115V ACIN 230V	32typ (lo=100%) Ta=2						
-					According to IECC00E				
	EAKAGE CURRENT	[IIIA]	12	15	According to IEC60950	36	48		
v		ACIN 85-115V			ess (refer to instruction		40		
C	URRENT[A]	ACIN 85-115V ACIN 115V-264V	12.5	10	6.4	4.2	3.2		
		ACIN 1150-2040 ACIN 85-115V			ess (refer to instruction		3.2		
v	VATTAGE[W]	ACIN 85-115V ACIN 115V-264V	· · ·	150.0	153.6	151.2	153.6		
-									
	INE REGULATION[m	-	48max	60max	96max	144max	192max		
	OAD REGULATION	lo=30 to 100%		120max	150max	150max	300max		
	mV] *4		Burst operation (Pleas		· ·	150	450		
F	RIPPLE[mVp-p]		120max	120max	120max	150max	150max		
	*1 Io: load factor		160max	160max	160max	200max	400max		
			500max	500max	500max	500max	500max		
R	IPPLE NOISE[mVp-p]	0 to +40℃	150max	150max	150max	200max	200max		
	*1		180max	180max	180max	240max	500max		
_	lo: load factor		600max	600max	600max	600max	600max		
Т	EMPERATURE REGULATION[mV]		120max	150max	240max	360max	480max		
		-10 to +40℃		180max	290max	440max	600max		
	DRIFT[mV]	*2	48max	60max	96max	144max	192max		
	START-UP TIME[ms]		500typ (ACIN 115V, lo						
	IOLD-UP TIME[ms]		20typ (ACIN 115V, lo=	,					
	UTPUT VOLTAGE ADJUSTMEN		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 SETTI		12.00 to 12.48	15.00 to 15.60	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92		
	VERCURRENT PROTE			ating and recovers auto					
	VERVOLTAGE PROTEC		13.80 to 16.80	17.25 to 21.00	27.60 to 33.60	41.40 to 50.40	54.00 to 67.20		
	OPERATING INDICAT	ION	LED (Green)						
	REMOTE SENSING		Not provided						
	REMOTE ON/OFF		Optional (Required external power source. Option -R)						
	NPUT-OUTPUT • RC	*9			C500V 50M Ω min (At r	, ,			
OLATION INPUT-FG			AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)						
C	OUTPUT • RC-FG *9								
c	DUTPUT-RC	*9	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At room temperature)						
0	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						
	TORAGE TEMP., HUMID.AND	ALTITUDE	-20 to +75°C, 20 - 90%	RH (Non condensing)	9,000m (30,000 feet) m	nax			
	/IBRATION		10 - 55Hz, 19.6m/s² (2	G), 3minutes period, 6	Ominutes each along X,	Y and Z axes			
	MPACT		196.1m/s2 (20G), 11m	s, once each X, Y and	Zaxes				
SAFETY AND	GENCY APPROVAL	S	UL60950-1, C-UL (CS	A60950-1), EN60950-	I, EN50178, UL508 (Exc	cept option -J) Complies	with DEN-AN		
	CONDUCTED NOISE		Complies with FCC-B,	VCCI-B, CISPR22-B,	EN55011-B, EN55022-B	3			
REGULATIONS H	ARMONIC ATTENUA	TOR *8	Complies with IEC610						



COOLING METHOD Convection	OTHERS	CASE SIZE/WEIGHT	41×97×129mm [1.61×3.82×5.08 inches] (Excluding terminal block and screw) (W×H×D) / 600g max						
 *1 This is the result of measurement of the testing board with capacitors of 22 µ F and 0.1 µ F placed at 150 mm from the output terminals by a 20 MHz oscilloscope or a ripple-noise meter equivalent to Keisoku-Giken RM103. When the load factor is 0 - 30%, the switching power loss is reduced by burst operation, which will cause ripple and ripple noise to go beyond the specifications. *5 Output power derating is required. See 3.3 in Instruction Manual for more details. *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 RC terminal is added to option – R models. The RC terminal is isolated from input, output, and FG. *9 The RC terminal is added to option – R models. The RC terminal is isolated from input, output, and FG. *0 ont use the power supply in overcurrent conditions or in unspecial input voltage to using the average mode of the tester to deal with the burst operation, which will cause ripple and ripple noise to go beyond the specifications. *7 Consult us about safety agency approvals for the models with optional functions. 	UTHENS	COOLING METHOD	Convection						
22 µ F and 0.1 µ F placed at 150 mm from the output terminals by a 20 MHz oscilloscope or a ripple-noise meter equivalent to Keisoku-Giken RM 103. *3 Output power derating is required. As for DC input, consult us for advice. is isolated from input, output, and FG. RM103. Consult us about dynamic load and input response. Measure the output terminals by a 20 voltage by using the average mode of the tester to deal with the burst operation at 30% load or less. bo not use the power supply in overcurrent conditions or in unspecial input voltage ranges. Otherwise the internal components may be adraged. When the load factor is 0 - 30%, the switching power loss is reduced by burst operation, which will cause ripple and ripple noise to go beyond the specifications. *5 Output power derating is required. See 3.2 in Instruction Manual for more details. * Parallel operation is not possible with this mode. *6 See 3.3 in Instruction Manual for more details. *7 Consult us about safety agency approvals for the models with optional functions. * Sound noise may be heard from the power supply when used for pulse load.	WARRANTY	WARRANTY *6	5 years (subject to the operating conditions)						
burst operation, which will cause ripple and ripple noise to go beyond the specifications. *6 See 3.3 in Instruction Manual for more details. *7 Consult us about safety agency approvals for the models with optional functions. *8 Sound noise may be heard from the power supply when used for pulse load.	22 µ F and MHz oscillo RM103.	0.1 μ F placed at 150 mm from the output termin scope or a ripple-noise meter equivalent to Keise	nals by a 20 *3 Output power derating is required. As for DC input, consult us for advice. is isolated from input, output, and FG. soku-Giken *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 is isolated from input, output, and FG.						
	burst operation burst operatio	tion, which will cause ripple and ripple noise to g ations.	go beyond *6 See 3.3 in Instruction Manual for more details. * Sound noise may be heard from the power supply when used f *7 Consult us about safety agency approvals for the models with optional functions. pulse load.						

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 requ	uired at AC85V - 115	V. See 1.1 and 3.2 in	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%)	80typ (lo=90%)	84typ (lo=90%)	84typ (lo=90%)	84typ (lo=90%)			
	EFFICIENCY[%]	ACIN 115V	74typ (lo=100%)	78typ (lo=100%)	80typ (lo=100%)	84typ (lo=100%)	84typ (lo=100%)	84typ (lo=100%)			
VPUT		ACIN 230V	77typ (lo=100%)	81typ (lo=100%)	83typ (lo=100%)	87typ (lo=100%)	87typ (lo=100%)	87typ (lo=100%			
		ACIN 100V	0.98typ (lo=90%)	1 - 31 (] · · / · · · · /			1			
	POWER FACTOR	ACIN 115V	0.98typ (lo=100%)								
		ACIN 230V	, , ,	.95typ (lo=100%)							
		ACIN 100V	20typ (Io=90%) Ta=	=25℃ at cold start							
	INRUSH CURRENT[A]	ACIN 115V	, ,	a=25°C at cold start							
		ACIN 230V	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	a=25°C at cold start							
	LEAKAGE CURRENT		, ,		100%, According to	IEC60950-1 and DE	N-AN)				
	VOLTAGE[V]	[]	5	12	15	24	36	48			
		ACIN 85-115V	-		5V or less (refer to in] = :		1.0			
	CURRENT[A]	ACIN 115V-264V	50	25	20	12.5	8.4	6.3			
		ACIN 85-115V			5V or less (refer to in						
	WATTAGE[W]	ACIN 115V-264V	250	300	300	300	302.4	302.4			
	LINE REGULATION[m		20max	48max	60max	96max	144max	192max			
	LOAD REGULATION	-	40max	100max	120max	150max	150max	300max			
	RIPPLE[mVp-p]	0 to +50℃	80max	120max	120max	120max	150max	150max			
	кірессішар-рі	-10 to 0°C	140max	160max	160max	160max	160max	400max			
UTPUT	RIPPLE NOISE[mVp-p]	0 to +50°C	120max	150max	150max	150max	200max	200max			
	*1	-10 to 0°C	160max	180max	180max	180max	240max	500max			
		0 to +50℃		120max	150max	240max	360max	480max			
	TEMPERATURE REGULATION[mV]	-10 to +50℃	75max	180max	180max	290max	440max	600max			
	DRIFT[mV]	*2	20max	48max	60max	96max	144max	192max			
	START-UP TIME[ms]	*2									
	HOLD-UP TIME[ms]			300typ (ACIN 115V, Io=100%) 20typ (ACIN 115V, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMEN			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 49.92			
DOTEOTION	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			
ROTECTION	OPERATING INDICAT		LED (Green)	13.00 10 10.00	17.23 to 21.00	27.00 10 33.00	41.40 10 30.40	35.20 10 07.20			
THERS	REMOTE SENSING		Not provided								
	REMOTE ON/OFF		Optional (Required external power source. Option -R)								
	INPUT-OUTPUT · RC	*10	<u>, , , , , , , , , , , , , , , , , , , </u>		, ,	min (At room tempe	ratura)				
	INPUT-FG		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At room temperature) AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At room temperature)								
ISOLATION OUTPUT • RC-FG		*10									
	OUTPUT-RC	*10	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										
	STORAGE TEMP.,HUMID.AND										
NVIRONMENT	VIBRATION	ALINUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000 feet) max 10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axes								
	IMPACT		,	1ms, once each X, Y							
		<u> </u>			950-1, EN50178 Co						
AFETY AND	CONDUCTED NOISE	3									
EGULATIONS	HARMONIC ATTENU		Complies with FCC		22-B, EN55011-B, EI	NUUUZZ-D					
LAOLAHONO	HARMONIC ATTENUA		Complies with IEC	DIDUU-S-Z Class A							



OTHERS	CASE SIZE/WEIGHT 10	02×41×190mm [4.02×1.61×7.48 inches] (Excluding terminal block and screw) (W×H×D) / 1.0kg max
UTHERS	COOLING METHOD *8 Fo	prced cooling (internal fan)
WARRANTY	WARRANTY *6 5	years (subject to the operating conditions)
22 µ F and MHz oscillo RM103. See 1.6 of I *2 Drift is the o warm-up at	result of measurement of the testing board with capac 0.1 µ F placed at 150 mm from the output terminals b scope or a ripple-noise meter equivalent to Keisoku- nstruction Manual for more details. shange in DC output for an eight hour period after a h 25°C. er derating is required. As for DC input, consult us for	ay a 20 *5 Output power derating is required. See 3.2 in Instruction Manual. input voltage ranges. Otherwise the internal components may be damaged. Biken *6 See 3.3 in Instruction Manual for more details. input voltage ranges. Otherwise the internal components may be damaged. *7 Consult us about safety agency approvals for the models with optional functions. *8 The fan speed slows down at no load. alf-horer *9 Consult us about other classes. *10 The RC terminal is added to option –R models. The RC terminal is

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.

	MODEL		PLA600F-12	PLA600F-15	PLA600F-24	PLA600F-36	PLA600F-48		
	VOLTAGE[V]	VOLTAGE[V]		out derating is required	at AC85V - 115V. See 1.	1 and 3.2 in Instruction M	lanual) *4		
ł	ACIN 100V		AC85 - 264 1 ϕ (Output derating is required at AC85V - 115V. See 1.1 and 3.2 in Instruction Manual) *4 6.7typ (Io=90%)						
	CURRENT[A]	ACIN 115V							
		ACIN 230V							
	FREQUENCY[Hz]		50 / 60 (47 - 63)						
	ACIN 100V		81typ (lo=90%)	81typ (lo=90%)	84typ (lo=90%)	85typ (lo=90%)	85typ (lo=90%)		
	EFFICIENCY[%]	ACIN 115V	81typ (lo=100%)	81typ (lo=100%)	84typ (lo=100%)	85typ (lo=100%)	85typ (lo=100%)		
INPUT		ACIN 230V	84typ (lo=100%)	84typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)	88typ (lo=100%)		
		ACIN 100V							
	POWER FACTOR	ACIN 115V							
		ACIN 230V							
-		ACIN 100V							
	INRUSH CURRENT[A]	ACIN 100V							
		ACIN 230V							
	LEAKAGE CURRENT[mA]		1.5max (ACIN 115V / 240V, 60Hz, lo=100%, According to IEC60950-1 and DEN-AN)						
	VOLTAGE[V]		12	15	24	36	48		
					ess (refer to instruction		40		
	CURRENT[A]	ACIN 85-115V ACIN 115V-264V	50	40	25	16.7	12.5		
		ACIN 1159-2049 ACIN 85-115V					12.5		
					600 less (refer to instruction	· · · · · · · · · · · · · · · · · · ·	000		
l			600	600		601.2	600		
-	LINE REGULATION[mV] *8		48max	60max	96max	144max	192max		
	LOAD REGULATION[100max	120max	150max	150max	300max		
Ουτρυτ	RIPPLE[mVp-p]	0 to +50℃	120max	120max	120max	150max	150max		
	*1 RIPPLE NOISE[mVp-p] *1	-20 to 0°C	160max	160max	160max	160max	400max		
		0 to +50℃	150max	150max	150max	200max	200max		
		-20 to 0℃	180max	180max	180max	240max	500max		
	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	=100%)					
	OUTPUT VOLTAGE ADJUSTMENT 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 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		Works over 105% of rating and recovers automatically						
ROTECTION	OVERVOLTAGE PROTECTION[V]								
CIRCUIT AND	OPERATING INDICATION		LED (Green)						
THERS	REMOTE SENSING		Optional (Option -W)						
	REMOTE ON/OFF		Optional (Required external power source. Option -R)						
	INPUT-OUTPUT • RC *3		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)						
	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)						
ISOLATION	OUTPUT • RC-FG *3		AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At room temperature)						
	OUTPUT-RC *3		AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At room temperature)						
	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						
ENVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axes						
	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axes						
AFETY AND	AGENCY APPROVALS		UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN						
OISE	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B						
	HARMONIC ATTENUATOR *10		Complies with IEC61000-3-2 class A						



OTHERS	CASE SIZE/WEIGHT	120×61×	20×61×215mm [4.72×2.40×8.46 inches] (Excluding terminal block and screw) (W×H×D) / 2.0kg max				
UTHENS	COOLING METHOD *9	Forced co	rced cooling (internal fan)				
WARRANTY	WARRANTY *6	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 o 0.1 µ F placed at 150 mm from the output termin scope or a ripple-noise meter equivalent to Keis nstruction Manual for more details. shange in DC output for an eight hour period afte 25°C.	als by a 20 oku-Giken er a half-hour	 The RC terminal is added to option – R models. The RC terminal is isolated from input, output, and FG. Output power derating is required. As for DC input, consult us for advice. 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 dynamic load and input response. 				
Feat	ures						

· Cost-effective

· Longer life (see Instruction Manual)

- Screw hold type terminal block
 Slow fan speed at no load
 - Many optional functions

Manual for details)

· Complies with SEMI F-47 (-U option, see Instruction

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

BOOSTER FUSE 250V 16A INDUCTOR INRUSH CURRENT RECTIFIER NOISE FILTER CURRENT RECTIFIER AC IN 85 - 264V 🔘 $-\infty$ AND SENSING FILTER LIMIT INVERTER FG © CONTROL CUBBENT SENSING O RC (-R) -0 External source THERMAL PARALLEL-OPERATION CONTROL CONTROL Current balance (-W) PROTECTION CIRCUIT OVER VOLTAGE DETECTING C LV alarm (-W) PROTECTION OUTPUT VOLTAGE RECTIFIER INVERTER AND -O DC OUT CONTROL FAN

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.

