300 Watt Enclosed with Fan Power Supply

Measures: 7.48 x 4.02 x 1.61"

COSEL AC-DC Power Supplies Enclosed type PLA300F

Ordering information

PL 300



- 1) Series name
 2) Single output
 3) Output wattage
 4) Universal input
 5) Output voltage
- (§) Output voltage
 (§) Optional *7
 C: with Coating
 G: Low leakage current
 V: External potentiometer for
 output voltage adjustment
 U: Low input voltage stop
 (Complies with SEMI F-47)
 R: Remote on/off
 (Remulied evternal power source)
- (Required external power source)
 F4: Low speed fan
- T2: Horizontal terminal block (non-screw-hold type)

See 5.1 in Instruction Manual.

SPECIFICATIONS

	CATIONS		I		T=	T	1	I =				
	MODEL		PLA300F-5	PLA300F-12	PLA300F-15	PLA300F-24	PLA300F-36	PLA300F-48				
	VOLTAGE[V]		AC85 - 264 1 \$\phi\$ (Output derating is required at AC85V - 115V. See 1.1 and 3.2 in Instruction Manual) *3 (DC input and AC265 - 277V input *3)									
Ī		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) (DC input and 440Hz *3)									
	ACIN 10		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%)				
INPUT		ACIN 230V	77typ (lo=100%)	81typ (lo=100%)	83typ (lo=100%)	87typ (lo=100%)	87typ (lo=100%)	87typ (lo=100%)				
İ	POWER FACTOR	ACIN 100V	0.98typ (lo=90%)									
		ACIN 115V	0.98typ (Io=100%)									
		ACIN 230V	0.95typ (lo=100%)									
	INRUSH CURRENT[A]	ACIN 100V	20typ (Io=90%) Ta=25°C at cold start									
		ACIN 115V	20typ (Io=100%) Ta=25°C at cold start									
		ACIN 230V	40typ (Io=100%) Ta=25°C at cold start									
İ	LEAKAGE CURRENT[mA]		0.75max (ACIN 115V / 240V, 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)									
	VOLTAGE[V]	<u> </u>	5	12	15	24	36	48				
ŀ	• • • • • • • • • • • • • • • • • • • •	ACIN 85-115V			5V or less (refer to in	I		1.0				
	CURRENT[A]	ACIN 115V-264V	50	25	20	12.5	8.4	6.3				
<u> </u>		ACIN 85-115V			5V or less (refer to in			10.0				
	WATTAGE[W]	ACIN 115V-264V	250	300	300	300	302.4	302.4				
ŀ	LINE REGULATION[n		20max	48max	60max	96max	144max	192max				
- F	LOAD REGULATION		40max	100max	120max	150max	150max	300max				
- F		0 to +50℃	80max	120max	120max	120max	150max	150max				
	RIPPLE[mVp-p]	-10 to 0°C	140max	160max	160max	160max	160max	400max				
OUTPUT	RIPPLE NOISE[mVp-p]	0 to +50℃	120max	150max	150max	150max	200max	200max				
		-10 to 0°C	160max	180max	180max	180max	240max	500max				
ŀ	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	120max	150max	240max	360max	480max				
		-10 to +50°C	75max	180max	180max	290max	440max	600max				
ŀ	DRIFT[mV]	*2	20max	48max	60max	96max	144max	192max				
	START-UP TIME[ms]		300typ (ACIN 115)		Journax	Joinax	ITTIIAX	TOZITIAX				
	HOLD-UP TIME[ms]		20typ (ACIN 115V,	. ,								
, , , , , , , , , , , , , , , , , , ,	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 ADJUSTMENT RANGE[V]		5.00 to 5.15	12.00 to 12.48	15.00 to 15.60	24.00 to 24.96	36.00 to 37.44	48.00 to 49.92				
	OVERCURRENT PROTECTION			of rating and recover		24.00 to 24.90	30.00 to 37.44	40.00 to 49.92				
PROTECTION	OVERVOLTAGE PROTECTION[V]		5.75 to 7.00	13.80 to 16.80	17.25 to 21.00	27.60 to 33.60	41.40 to 50.40	55.20 to 67.20				
	OPERATING INDICATION		LED (Green)	13.00 to 10.00	17.23 to 21.00	27.00 to 33.00	11.40 to 30.40	33.20 to 07.20				
-	REMOTE SENSING		Not provided									
-	REMOTE ON/OFF		Optional (Required external power source. Option -R)									
	INPUT-OUTPUT • RC *10		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At room temperature)									
	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At room temperature)									
ISOLATION	OUTPUT • RC-FG *10		AC500V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At room temperature)									
}			AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At room temperature)									
	OUTPUT-RC *10 OPERATING TEMP.,HUMID.AND ALTITUDE *5											
ENVIRONMENT	STORAGE TEMP., HUMID. AND ALTITUDE		-20 to +70°C (Output derating is required), 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max									
	VIBRATION		-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000 feet) max									
	IMPACT		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axes									
			196.1m/s² (20G), 11ms, once each X, Y and Z axes									
	AGENCY APPROVAL	<u> </u>	UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN									
NOISE REGULATIONS	CONDUCTED NOISE	TOP .	Complies with FCC-B, VCCI-B, CISPR22-B, EN55011-B, EN55022-B									
VEGOLVIION9	HARMONIC ATTENUA	AIUR *9	Complies with IEC61000-3-2 class A									

300 Watt Enclosed with Fan Power Supply

Measures: 7.48 x 4.02 x 1.61'

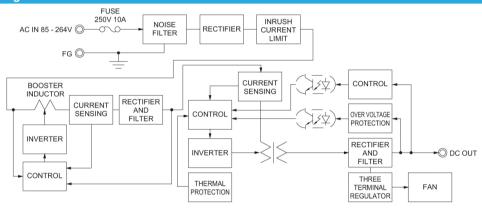
SPECIFICATIONS

OTHERS	CASE SIZE/WEIGHT 102×4		02×41×190mm [4.02×1.61×7.48 inches] (Excluding terminal block and screw) (W×H×D) / 1.0kg max						
OTHERS	COOLING METHOD *8	Forced of	ing (internal fan)						
WARRANTY	WARRANTY *6	5 years (subject to the operating conditions)							
22 µ F and MHz oscille RM103. See 1.6 of	result of measurement of the testing board with 10.1 IP F placed at 150 mm from the output termi oscope or a ripple-noise meter equivalent to Kei Instruction Manual for more details.	nals by a 20 soku-Giken	to be used for DC input, 440Hz input or AC265-277V input. 44 Consult us about dynamic load and input response. 5 Output power derating is required. See 3.2 in Instruction Manual. 6 See 3.5 in Instruction Manual for more details. 7 Consult us about safety agency approvals for the models with optional functions.	*	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.				
 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C. Output power derating is required. Consult us if the power supply needs 			 *8 The fan speed slows down at no load. *9 Consult us about other classes. *10 The RC terminal is added to option –R models. The RC terminal is 	*	Sound noise may be heard from the power supply when used for pulse load.				

Features

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

Block diagram



External view

The external size of –V option, –R option, and –T2 option models is different from the standard model. See "5. Options and Others" in Instruction Manual for more details.

