

ADA600F Series

600 Watt Single Output Models

Cosel
Industrial / High Peak Load Power Supplies

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Dimensions: 7.68 x 5.00 x 2.56"



FEATURES:

- 650 Watts Continuous Load
- 750 Watt Peak Load (10 seconds & 35% duty cycle)
- Universal AC Input (85-264 VAC)
- Harmonic Attenuation for EN/IEC61000-3-2 Class D Compliance
- Small Size and Light Weight Package
- Optional DIN Rail Mount Attachment
- High Reliability Design - MTBF > 180k Hours
- Optional Status and Control Signals:
- 5 Year Warranty



INPUT SPECIFICATIONS:

INPUT VOLTAGE	Universal AC input Range (85-264 VAC / 120-350 VDC)
INPUT FREQUENCY	47-63 Hz
INRUSH	20A max @ 100VAC / 40A max @ 200VAC (cold start)
INPUT CURRENT	7.2A typ @ 100VAC / 3.6A typ @ 200VAC
LEAKAGE	<750µA maximum @ 264 VAC
HOLD-UP	20ms typical, full load & VAC Operation
EFFICIENCY	84-89% Typical (depending on output model)
HARMONICS	EN61000-3-2, Class D Compliant (>0.98 PF Typ.)

OUTPUT SPECIFICATIONS:

ADJUSTMENT RANGE	See Output Table
MINIMUM LOAD	none required
REGULATION	250-500mv maximum (line, load & temperature)
RIPPLE	150-250mv pk-pk maximum (20MHz)
SETPPOINT ACCURACY	±0.5-1V (maximum)
OVER CURRENT	>101% of peak current ratings, auto-recovery
OVER VOLTAGE PROTECTION	130-145% of V1 nominal

STATUS & CONTROL SPECIFICATIONS:

POWER FAIL	Low = OK / High = DC or Fan Fail
REMOTE ON/OFF	Remote on/off Control (Option R)
CURRENT SHARE	See detailed spec (Option W)

DOWNLOADS:

Soft copy of this specification: <http://www.powergatellc.com/pdfs/ADA600.pdf>
Detailed Spec: http://www.cosel.co.jp/en/products/pdf/SFE_ADA.pdf
Instruction Manual: http://www.cosel.co.jp/en/products/pdf/CME_ADA.pdf

Note: Specifications are subject to change without notice.

ENVIRONMENTAL SPECIFICATIONS:

OPERATING TEMPERATURE	-10~71°C Refer to Derating Curve
STORAGE TEMPERATURE	-40°C ~ +85°C max.
COOLING	Refer to Derating Curve
HUMIDITY	20~90%RH (non-condensing)
VIBRATION	10-55Hz, 2G, 3min period/60 min each (3axes)
SHOCK	20G Peak Acceleration
RELIABILITY	> 180k hours MTBF (per EIAJ RCR-9102)
WEIGHT	3.31

EMISSIONS:

ELECTROSTATIC DISCHARGE	EN61000-4-2, 4kV Contact / 8kV Air
RADIATED SUSCEPTIBILITY	EN61000-4-3, 26-1000MHz, 10V/M, 80%AM
EFT / BURSTS	EN61000-4-4, 2kV
SURGES	EN61000-4-5, 2kV Earth, 1kV Line-Line
CONDUCTED IMMUNITY	EN61000-4-6, 0.15-800MHz, 10V 80%
VOLTAGE DIPS	EN61000-4-10, 95% Dip & 10ms, 30% Dip & 500ms
VOLTAGE INTERRUPTIONS	EN61000-4-11, 95% reduction, 5ms
FLUCTUATIONS & FLICKER	EN61000-3-3

STANDARDS:

SAFETY	UL/cUL60950-1
SAFETY	EN60950-1
SAFETY	EN50178 (Complies with DEN-AN)
SAFETY	CE Mark (LVD)
EMISSIONS	FCC Part 15 (Class B), VCCI-B, EN55011B, EN55022B,

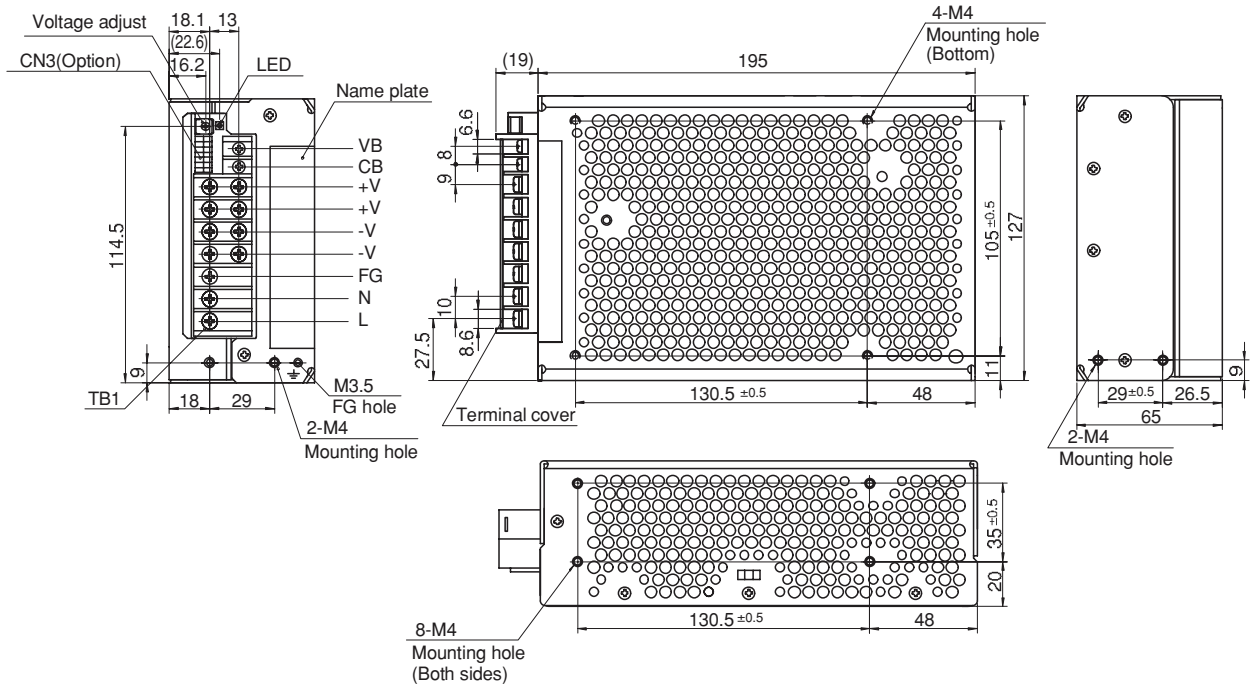
MODELS:	Convection Cooled	Air Cooled	NOTE:
ADA600F-24 @ 100VAC	24V 14A (25A peak)	21A (25A peak)	Adjustable 21.6-27.0 VDC
@ 200VAC	15A (31A peak)	25A (31A peak)	
ADA600F-30 @ 100VAC	30V 11A (20A peak)	16.5A (20A peak)	Adjustable 27.0-33.0 VDC
@ 200VAC	12A (24.5A peak)	20A (24.5A peak)	
ADA600F-36 @ 100VAC	36V 9A (16.5A peak)	14A (16.5A peak)	Adjustable 33.0-41.0 VDC
@ 200VAC	10A (20.5A peak)	16.5A (20.5A peak)	
ADA600F-48 @ 100VAC	48V 6.5A (12.5A peak)	10.5A (12.5A peak)	Adjustable 41.0-52.8 VDC
@ 200VAC	7A (15.5A peak)	12.5A (15.5A peak)	

NOTES:

Options:

R Suffix	Remote On/Off Control	G Suffix	150uA Leakage Option
T Suffix	Vertical Position Terminal Blocks	C Suffix	Conformal Coating
F Suffix	Top Mounted Fan bracket (24V Models only)	N1	Din Rail
E Suffix	500uA Leakage Option	W	Alarms & Redundant Operation

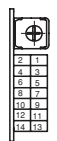
MECHANICAL OUTLINE:



※ Pin assign

Symbol	Function	Screw type
VB	Voltage balance	M3
CB	Current balance	
+V	Output terminal(+)	M4
+V	Output terminal(+)	
-V	Output terminal(-)	
-V	Output terminal(-)	
FG	Frame ground	
N	AC(N)	
L	AC(L)	

Average 21A max per pin for TB1



CN3(Optional)

Pin No.	Function
1	RC+ : Remote ON/OFF+(-R)
2	RC- : Remote ON/OFF-(-R)
3-8	NC : N.C.
9	LV+ : LV Alarm(-W)
10	LV- : LV Alarm ground(-W)
11-12	NC : N.C.
13	PF+ : PF Alarm(-W)
14	PF- : PF Alarm ground(-W)

Connector	Mating connector	Terminal	Mr.
CN3	S14B-PHDSS	PHDR-14VS	
		Chain:SPHD-002T-P0.5	
		Loose:BPHD-001T-P0.5	J.S.T
		BPHD-002T-P0.5 *	

* 1 Ratchet Hand is nothing

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