GECA40

40 Watt Series

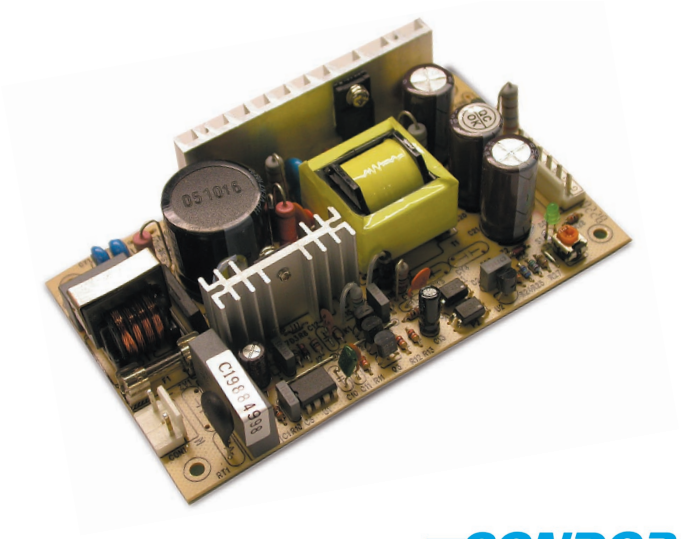
SL POWER ELECTRONICS

Commercial Wide-Range Input

2 Year Warranty

- *Wide-Range AC Input 90-264 VAC*
- *Industry Standard Footprint - 3"x 5"x 1.25"*
- *Conducted EMI Exceeds FCC Class B and CISPR 22 Class B*
- *Single and Multiple Outputs*
- *Approved to EN/CSA/IEC/UL62368-1*
- *CB Report Available*
- *RoHS Compliant*
- *Marked to LVD*

CE



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Specifications

Unless otherwise noted, all parameters are nominal values measured at 120 VAC @25˚C and 0-95% relative humidity, non-condensing. For limits at unusual operatiing conditions, consult factory.

AC Input
Universal Input 90-264 VAC, 47-63 Hz single phase.

Input Current
Maximum input current at 120 VAC, 60 Hz with full rated output load: Multiple models 1.7 A, Single models 1.0 A.

Hold-Up Time
10 ms minimum with 40 W load, nominal line (120 VAC).

Output Power
40 W continuous, 45 W peak. Peak ratings are for 60 s maximum duration, 10% duty cycle. During peak load condition, output regulation may exceed total regulation limits.

Overload Protection
Fully protected against short circuit and output overload. Short circuit protection is cycling type power limit on V1 and V2, foldback type on V3.

Overvoltage Protection
On V1 is 120% to 160%. See chart.

Efficiency
75 to 80% at full rated load, nominal input voltage, depending on model and load distribution.

Turn-on Time
Less than 2 seconds.

Input Protection
Internal AC fuse provided. Designed to blow only if a catastrophic failure occurs in the unit. Fuse does not blow on overload or short circuit.

Inrush Current
Inrush is limited by internal thermistors. Inrush at 240 VAC under cold start conditions will not exceed 37A.

Temperature Coefficient
0.03%/°C typical on all outputs.

Temperature Range
Designed for 0 to 45°C operation at full rated output power; derate output current and total output power by 2.5% per °C above 45°C.

Output Noise
0.5% rms, 1% pk-pk typical (see chart), 20 MHz bandwidth, differential mode. Measured with noise probe directly across output terminals of the power supply with load terminated with 0.1 µF capacitor.

Transient Response
Main output—500 µs typical response time for return to within 0.5% of final value for a 50% load step change. Δi/ Δt<0.2 A/µs. Maximum voltage deviation is 3.5%. Startup/ shutdown overshoot less than 3%.

Switching Frequency
70 kHz +/-10 kHz.

Voltage Adjustment
Provided on V1. Adjustable voltages are preset at factory. Outputs are capable of minimum +/- 5% change from nominal setting. Multiple output models - V2 voltage will track V1 adjustment.

EMI/EMC Compliance
All models include built-in EMI filtering to meet the following emissions requirements:

EMI SPECIFICATIONS	COMPLIANCE LEVEL
Conducted Emissions	EN55022 Class B; FCC Class B
Static Discharge	EN61000-4-2, Level 3
RF Field Susceptibility	EN61000-4-3, Level 3
Fast Transients/Bursts	EN61000-4-4, Level 3
Surge Susceptibility	EN61000-4-5, Level 3

Safety Approvals
SL Power Electronics, Corp. declares under our sole responsibility that all GECA models are in conformity with the applicable requirements following the provisions of the Low Voltage Directive 73/23/EEC.

All GECA models are approved to EN/CSA/IEC/UL62368-1

MTBF
120kHrs.

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40 Watt Series

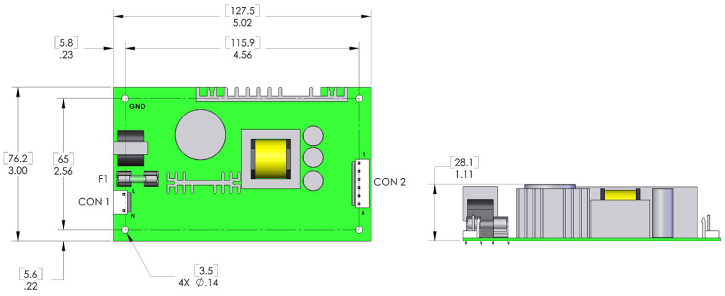
Commercial Wide-Range Input

Commercial Model	Output No.	Output (V)	Current Minimum	Current Maximum	Line Regulation	Load Regulation	V1 OVP Set Point	Ripple & Noise(P-P)
GECA40AG	V1	+5 V	0.35 A	3.5 A	+/-0.5%	+/-3%	6.6 +/-0.9 V	50 mV
	V2	+12 V	0 A	2 A	+/-1%	+/-10%		120 mV
	V3	-12 V	0 A	0.3 A	+/-1%	+/-5%		120 mV
GECA40BG	V1	+5 V	0.35 A	3.5 A	+/-0.5%	+/-3%	6.6 +/-0.9 V	50 mV
	V2	+12V	0 A	2 A	+/-1%	+/-10%		120 mV
	V3	-5 V	0 A	0.3 A	+/-1%	+/-5%		50 mV
GECA40HG	V1	+3.3 V	0.4 A	4 A	+/-0.5%	+/-3%	4.4 +/-0.6 V	50 mV
	V2	+12 V	0 A	2 A	+/-1%	+/-10%		120 mV
	V3	-12 V	0 A	0.3 A	+/-1%	+/-5%		120 mV
GECA40DG	V1	+5 V	0.35 A	3.5 A	+/-0.5%	+/-3%	6.6 +/-0.9 V	50 mV
	V2	+24 V	0 A	1.2 A	+/-1%	+/-10%		240 mV
	V3	-12 V	0 A	0.3 A	+/-1%	+/-5%		120 mV
GECA40-5G	V1	5 V	0 A	7 A	+/-0.5%	+/-3%	7.0 +/-1.0 V	50 mV
GECA40-12G	V1	12 V	0 A	3.3 A	+/-0.5%	+/-3%	16.8 +/-2.4 V	120 mV
GECA40-15G	V1	15 V	0 A	2.7 A	+/-0.5%	+/-3%	21.0 +/-3.0 V	150 mV
GECA40-24G	V1	24 V	0 A	1.7 A	+/-0.5%	+/-3%	33.6 +/-4.8 V	240 mV

Environmental Specifications

ENVIRONMENT	OPERATING	NON-OPERATING
Temperature (A)	0 to 45°C	-40 to +85°C
Humidity (A)	20 to 90% RH	10 to 95% RH
Shock (B)	20 g_{pk}	40 g_{pk}
Altitude	-500 to 10,000 ft	-500 to 40,000 ft
Vibration (C)	1.5 g_{rms}, 0.0032 g^2/Hz	5 g_{rms}, 0.026 g^2/Hz

A. Units should be allowed to warm up/operate under non-condensing conditions before application of power.
B. Shock testing—half-sinusoidal, 10 ± 3 ms duration, ± direction, 3 orthogonal axes, total 6 shocks.
C. Random vibration—10 to 2000Hz, 6dB/octave roll-off from 350 to 2000Hz, 3 orthogonal axes. Tested for 10 min./axis operating and 1 hr./axis non-operating.



GECA40 Series Mechanical Specifications

CON 1:
MOLEX P/N 26-60-4030, w/center PIN Removed
0.156 [3.96 mm] CTR Header

CON 2:
MOLEX P/N 26-60-4060, 0.156 [3.96 mm] CTR Header

Input J1

PIN 1)	AC Line
PIN 3)	AC Neutral

Output J2

	Multiple Output Models	Single Output Models
PIN 1)	Output 2	Output 1
PIN 2)	Common	Output 1
PIN 3)	Common	Output 1
PIN 4)	Output 1	Common
PIN 5)	Output 1	Common
PIN 6)	Output 3	Common

Mating Connector MOLEX	Housing P/N	Contacts P/N
Input	09-50-3031	08-52-0072
Output	09-50-3061	08-52-0072

Note: 5A maximum recommended current per Connector PIN

Weight
1.0 lbs Max [0.45 kg Max.]

Tolerance
X.XX=0.030
X.XXX=0.010 [0.mm]

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