

LFZVC65 Series



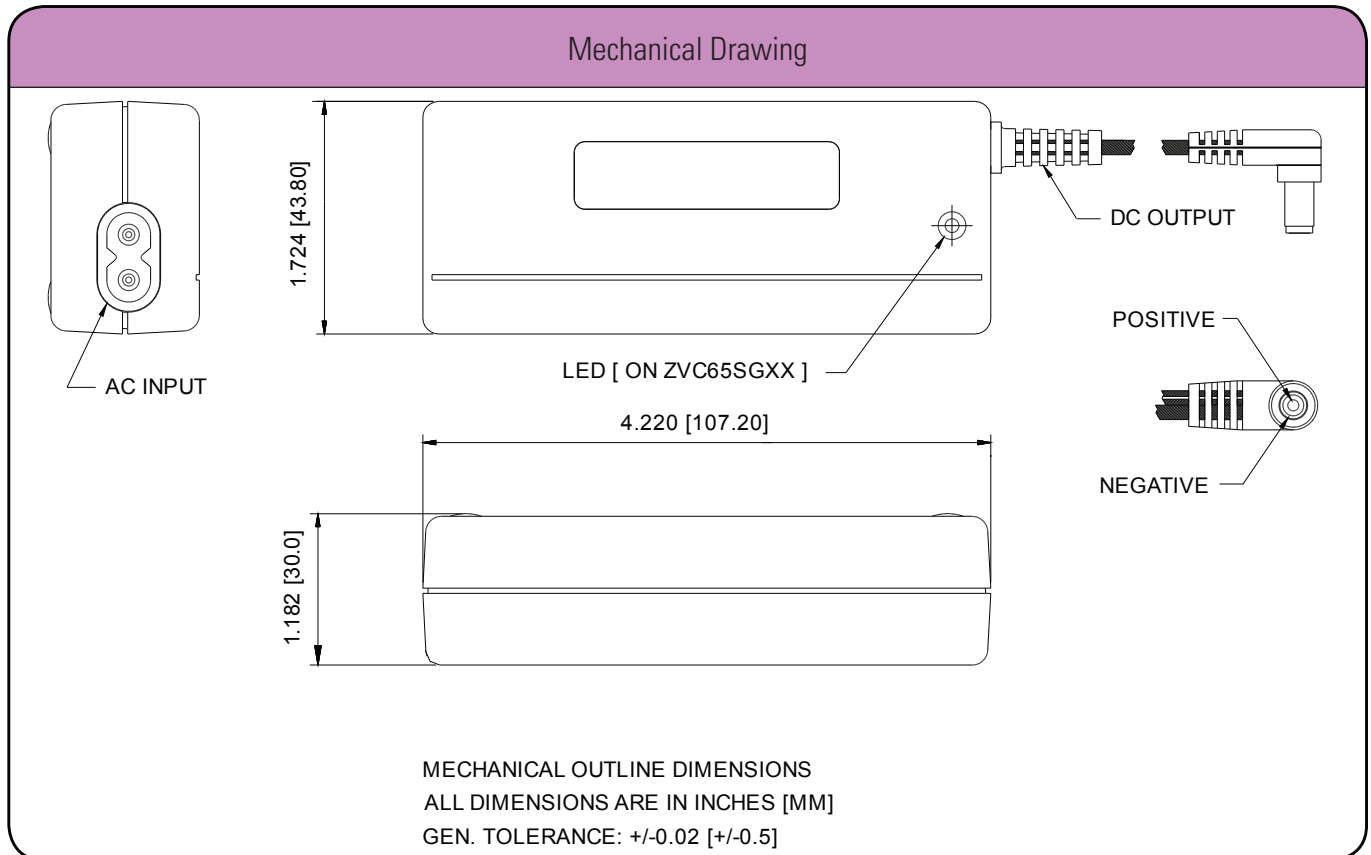
Features

- High power density up to 8 W/in³
- Efficiency upto 90%
- Smallest 65 W adapter
- EN55022-B, FCC Part15 Level B Noise
- Class 2 safety approvals

Electrical Specifications

AC Input	90–132 V & 180–264 V, Auto Ranging	
Input Frequency	47–63 Hz	
Input Current	120 VAC: 1.23 A max.	230 VAC: 0.64 A max.
Inrush Current	120 VAC: 35 A max.	230 VAC: 60 A max.
Leakage Current	120 VAC: < 140 μ A	230 VAC: < 250 μ A
Efficiency ¹	120 VAC: 86% typical	230 VAC: 88% typical
Hold-up Time	120 VAC: 15 ms	230 VAC: 15 ms
Output Power	25 to 65 W	
Line Regulation	+/-0.5%	
Load Regulation	+/-5.0%	
Transient Response	< 5%; 25% load change from mid level, 100 Hz, 50% duty cycle, 0.1 A/ μ s, recovery time < 5 ms	
Rise Time	< 10 ms	
Set Point Accuracy	+/-5%	
Over Current Protection	120% typical above rating	
Over Voltage Protection	Redundant feedback type	
Short Circuit Protection	Short term, auto recovery	
Switching Frequency	Boost converter: 90 kHz typical Resonant converter: 45 kHz typical	
Isolation Voltage	Min. 4243 VDC between input to output	
Operating Temperature	0 to 40°C	
Storage Temperature	-40 to +85°C	
Relative Humidity	95% Rh, non-condensing	
MTBF	> 100 kh, MIL-HDBK 217F	
Cooling	Convection	

Model Number	Case Type	Voltage	Max. Load	Min. Load ²	Ripple ³
LFZVC25SG05E	SG	5 V	5.0 A	1.0 A	< 1.5%
LFZVC45SG12E	SG	12 V	3.75 A	0.0 A	< 1.5%
LFZVC55SG15E	SG	15 V	3.66 A	0.0 A	< 1.5%
LFZVC65SG19E	SG	19 V	3.15 A	0.0 A	< 1.5%
LFZVC65SG24E	SG	24 V	2.7 A	0.0 A	< 1.5%
LFZVC65SG48E	SG	48 V	1.35 A	0.02 A	< 1.5%



Notes

1. For 5 V efficiency is 77% typical.
2. At no load output will be +/-10%. For ZVC45/55/65 requires 20 mA min. load for output to be within regulation band.
3. Ripple is peak to peak with 20 MHz bandwidth and 10 μ F (Tantalum capacitor) in parallel with a 0.1 μ F capacitor at rated line voltage and load ranges.
4. Specifications are for nominal input voltage, 25°C and max. load unless otherwise stated.
5. Derate output power linearly to 80% from 90 VAC to 80 VAC input.

Mechanical Specifications

AC Input Connector	IEC320 C8
DC Output Connector	Right angle plug; ID: 2.54 mm, OD: 5.54 mm Barrel length: 9.6 mm. Centre positive polarity Cable length: 40 inches
Dimensions	4.22 x 1.724 x 1.182 inches (107.2 x 43.8 x 30.0 mm)
Weight	200 g

EMC

CE Mark	Complies with LVD and EMC Directives
Conducted Emissions	EN55022-B, CISPR22-B, FCC PART15 CLASS-B, EN50082-1
Static Discharge	EN61000-4-2, Level-3
RF Field Susceptibility	EN61000-4-3, Level-3
Fast Transients/Bursts	EN61000-4-4, Level-3
Radiated Emissions	EN55022-B, CISPR22-B, FCC PART15-B
Surge Susceptibility	EN61000-4-5, Level-3

Safety

Safety Standard(s)	IEC60950-1 (ed.2), CSA C22.2 No. 60950 (2nd Edition), EN60950-1, UL60950 (2nd Edition), Class 2 SELV
Approval Agency	Nemko, UL, C-UL
Safety File Number(s)	Nemko: P11214120 UL: E150565