

# LFEVC65 Series



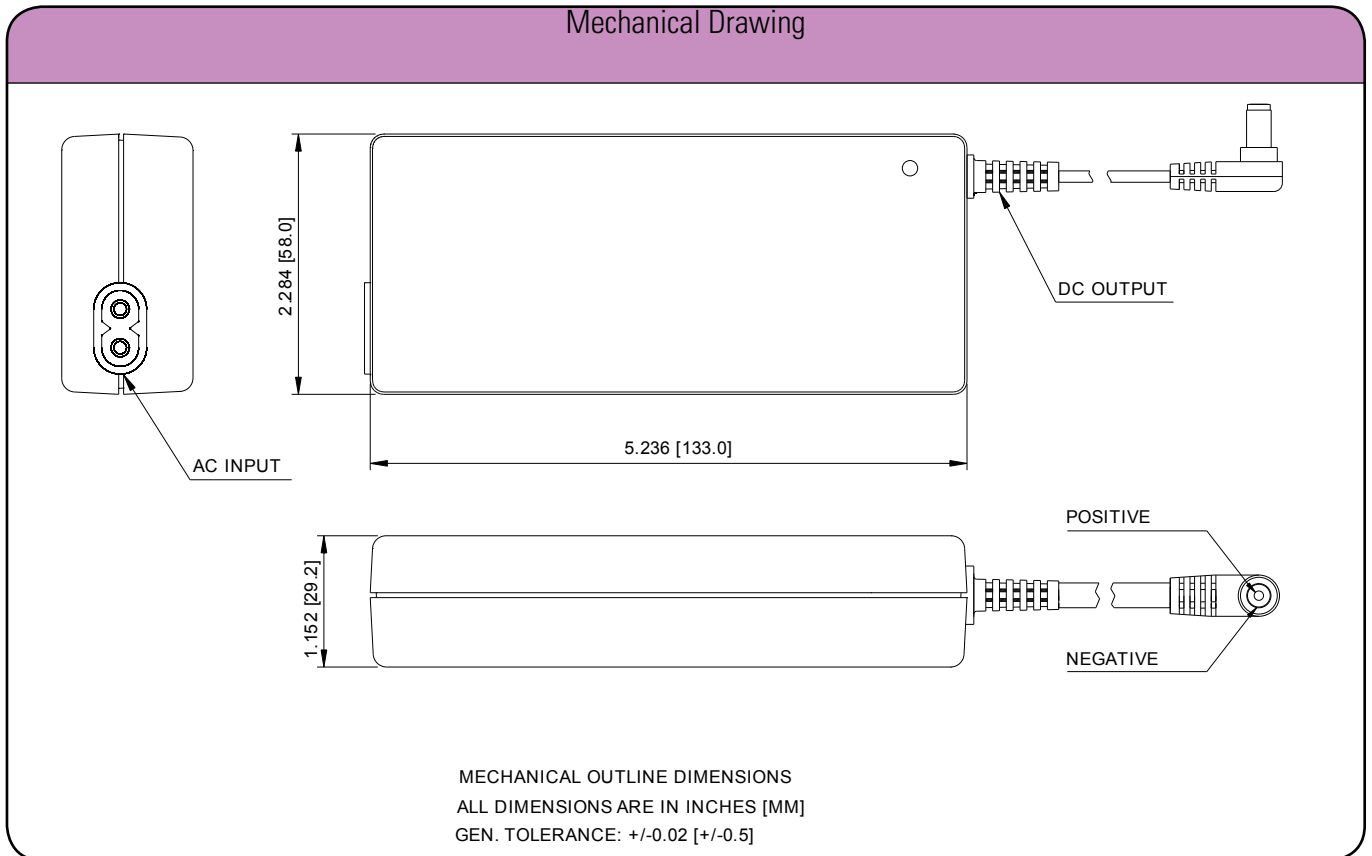
## Features

- Universal input
- Energy Star Level V
- Efficiency up to 87%
- EN55022-B, FCC Part15 Level B Noise
- Class 2 product
- No Load Power less than 0.5 W

## Electrical Specifications

AC Input	90–264 V, Universal	
Input Frequency	47–63 Hz	
Input Current	120 VAC: 1.3 A max.	230 VAC: 0.7 A max.
Inrush Current	120 VAC: 30 A	230 VAC: 60 A
Leakage Current	120 VAC: < 120 $\mu$ A	230 VAC: < 250 $\mu$ A
Efficiency	120 VAC: 87% typical	230 VAC: 88% typical
Hold-up Time	120 VAC: 16 ms	230 VAC: 16 ms
Energy Star Level	Level IV for 12 V model; Level V for 15 V, 19 V, 24 V and 48 V model	
No Load Input Power	< 0.5 W	
Output Power	55 to 65 W	
Line Regulation	+/-1%	
Load Regulation	+2% & -5.0%	
Transient Response	< 5%; 10% min. load and 25% load change from mid-level, 100 Hz, 50% duty cycle, 0.1 A/ $\mu$ s, recovery time < 5 ms	
Rise Time	< 100 ms	
Set Point Accuracy	+/-3%	
Overshoot	< 10%	
Turn-on Delay	< 2 s	
Over Current Protection	110 to 150%, autorecovery	
Over Voltage Protection	110 to 150%, autorecovery	
Short Circuit Protection	Short term, autorecovery	
Switching Frequency	66.5 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, noncondensing	
MTBF	3.33m Hours, Telcordia SR332 Issue-3	
Cooling	Convection	

Model Number	Case Type	Voltage	Max. Load	Min. Load	Ripple <sup>1</sup>
LFEVC65NS12E	NS	12 V	4.58 A	0.0 A	< 1%
LFEVC65NS15E	NS	15 V	4.33 A	0.0 A	< 1%
LFEVC65NS19E	NS	19 V	3.42 A	0.0 A	< 1%
LFEVC65NS24E	NS	24 V	2.71 A	0.0 A	< 1%
LFEVC65NS48E	NS	48 V	1.35 A	0.0 A	< 1%



### Notes

1. Ripple is peak to peak with 20 MHz bandwidth and 10  $\mu$ F (Tantalum capacitor) in parallel with a 0.1  $\mu$ F capacitor at rated line voltage and load ranges.
2. Specifications are for nominal input voltage, 25°C and max. load unless otherwise stated.
3. Derate output power linearly to 80% from 90 VAC to 80 VAC input.



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### 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. Center positive polarity Cable length: 40 inches
Dimensions	5.236 x 2.284 x 1.152 inches (133.0 x 58.0 x 29.2 mm)
Weight	300 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)	EN60950-1, IEC60950-1 (ed.2), CSA C22.2 No. 60950-1 (2nd Edition), UL60950-1 (2nd Edition)
Approval Agency	Nemko, Nemko-CCL, UL
Safety File Number(s)	Nemko: P11214632, EEV 10016/12 CCL: NA201110108 UL: E150565

### Derating Curve

