

20 - 65 Watts

- Energy Efficiency Level VI
- Medical and ITE Approvals
- C6, C8, C14 Input type option
- Output Voltage from 12 V to 58 V
- LPS Limited Power Source
- DC LED Signal options



Dimension

eZVC :

- 4.25 x 1.81 x 1.16

eZVC series of desktop adaptors comply with the latest energy efficiency level VI standards with high active mode efficiency and extremely low no-load power consumption. Available with a standard jack plug connector is with customized DC connection options. These adaptors suit a wide variety of cost-sensitive industrial and medical applications while maintaining industry-leading performance.

20 Watt

Model Number	Voltage	Max. Load	Min. Load	Ripple ¹
eZVC20FS12E	12V	1.66A	0.0A	< 2%
eZVC20FS15E	15V	1.33A	0.0A	< 2%
eZVC20FS19E	19V	1.05A	0.0A	< 2%
eZVC20FS24E	24V	0.83A	0.0A	< 2%
eZVC20FS48E	48V	0.41A	0.0A	< 2%
eZVC20FS58E	58V	0.34A	0.0A	< 2%

30 Watt

Model Number	Voltage	Max. Load	Min. Load	Ripple ¹
eZVC30FS12E	12V	2.5A	0.0A	< 2%
eZVC30FS15E	15V	2A	0.0A	< 2%
eZVC30FS19E	19V	1.58A	0.0A	< 2%
eZVC30FS24E	24V	1.25A	0.0A	< 2%
eZVC30FS48E	48V	0.63A	0.0A	< 2%
eZVC30FS58E	58V	0.52A	0.0A	< 2%

36 Watt

Model Number	Voltage	Max. Load	Min. Load	Ripple ¹
eZVC36FS12E	12V	3A	0.0A	< 2%
eZVC36FS15E	15V	2.4A	0.0A	< 2%
eZVC36FS19E	19V	1.89A	0.0A	< 2%
eZVC36FS24E	24V	1.5A	0.0A	< 2%
eZVC36FS48E	48V	0.75A	0.0A	< 2%
eZVC36FS58E	58V	0.62A	0.0A	< 2%

45 Watt

Model Number	Voltage	Max. Load	Min. Load	Ripple ¹
eZVC45FS12E	12V	3.75A	0.0A	< 2%
eZVC45FS15E	15V	3A	0.0A	< 2%
eZVC45FS19E	19V	2.37A	0.0A	< 2%
eZVC45FS24E	24V	1.88A	0.0A	< 2%
eZVC45FS48E	48V	0.93A	0.0A	< 2%
eZVC45FS58E	58V	0.77A	0.0A	< 2%

55 Watt

Model Number	Voltage	Max. Load	Min. Load	Ripple ¹
eZVC55FS12E	12V	4.58A	0.0A	< 2%
eZVC55FS15E	15V	3.66A	0.0A	< 2%
eZVC55FS19E	19V	2.89A	0.0A	< 2%
eZVC55FS24E	24V	2.29A	0.0A	< 2%
eZVC55FS48E	48V	1.14A	0.0A	< 2%
eZVC55FS58E	58V	0.94A	0.0A	< 2%

65 Watt

Model Number	Voltage	Max. Load	Min. Load	Ripple ¹
eZVC65SG19E	19V	3.42A	0.0A	< 2%
eZVC65SG24E	24V	2.7A	0.0A	< 2%
eZVC65SG48E	48V	1.35A	0.0A	< 2%
eZVC65SG58E	58V	1.12A	0.0A	< 2%

Ordering definition

Example : eZVC XX YY ZZ WW V - M

eZVC	XX	YY	ZZ	WW	V (I/P Option)	M
Series Name	Wattage (eg. 20/30/45/55/65)	Sub Code (eg. 20/45-FS, 55/65-SG/NS)	Output Voltage (eg. 12,15, 19 etc)	Cord Type (ref. Page 4)	6 - C6 (Class I), 8 - C8 (Class II), 4 - C14 (Class I)	Medical Option

Notes

1. Total regulation includes initial set accuracy, line and load regulation.
2. Typical average value measured at 25%, 50%, 75% and 100% at 230 VAC.
3. -M suffix to be added for Medical versio.
4. LED indication optional on request to your sales representative.

Input

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Input Voltage	90		264	VAC	
Input Frequency	47		63	Hz	
Input Current			2.0	A	90 VAC
Inrush Current			100	A	230 VAC, cold start at 25 °C
No Load Input Power			150	mW	
Input Protection	Internal fuse in both line and neutral				

Output

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Output Voltage	12		58	V	See Models and Ratings table
Minimum Load	0			A	No minimum load required
Start Up Delay			4	s	
Start Up Rise Time		30	55	ms	
Hold Up Time	10			ms	Full load and 100 VAC
Total Regulation			5	%	See Models and Ratings table
Transient Response			4	% deviation	Recovery within <1% within 500 μs for a 60% step load change at 0.15 A/μs
Ripple & Noise			2%	mV pk-pk	Measured with 20 MHz bandwidth and 10 μF electrolytic in parallel with 0.1 μF ceramic capacitor
Overload Protection	130		160	%	
Short Circuit Protection					Continuous, trip and restart (hiccup mode) with auto recovery
Temperature Coefficient			0.05	% / °C	

General

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Efficiency		88		%	Typical average of efficiencies measured at 25%, 50%, 75% and 100% load and 115 VAC input
Energy Efficiency					Level VI
Isolation: Input to Output	4000			VAC	Input to Output, 2 x MOPP
Input to Ground	1500				Class I version only
Output to Ground					
Leakage Current			100	μA	264 VAC, 60 Hz
Switching Frequency	24		160	kHz	Variable
Mean Time Between Failure	250			kHrs	MIL-HDBK-217F at 25 °C GB
Weight		0.75 (340)		lb (g)	

Environmental

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Operating Temperature	0		40	°C	
Storage Temperature	-20		+70	°C	
Operating Humidity	5		90	%	RH, non-condensing
Operating Altitude			5000	m	
Cooling					Natural convection
Shock					1 m drop onto concrete on each of 6 axes, non operating
Vibration	10		300	Hz	2 g, 0.3 decades/min, 15 mins for each of 3 axes

EMC: Immunity

Phenomenon	Standard	Test Level	Criteria	Notes & Conditions
Medical Device EMC	IEC60601-1-2		as below	
ESD Immunity	EN61000-4-2	±8 kV contact, ±15 kV air	A	
Radiated Immunity	EN61000-4-3	10 V/m	A	
EFT/Burst	EN61000-4-4	Level 3	A	
Surge	EN61000-4-5	Level 3	A	
Conducted Immunity	EN61000-4-6	6 V	A	
Magnetic Fields	EN61000-4-8	30 A/m	A	
Dips and Interruptions		Dip: 100% 10 ms	A	
		Dip: 70% 500 ms	B	
		Int: 100% 5000 ms	B	
		Dip: 30% 25 AC Cycles	A	
		Int: 100% 0.5 AC Cycle	A	At 8 angles
		Int: 100% 1 AC Cycle	B	
		Int.: >95% 5000 ms	B	

EMC: Emissions

Phenomenon	Standard	Test Level	Notes & Conditions
Conducted	EN55032	Level B	
Radiated	EN55032	Level B	
Voltage Flicker	EN61000-3-3		



CODICO GmbH

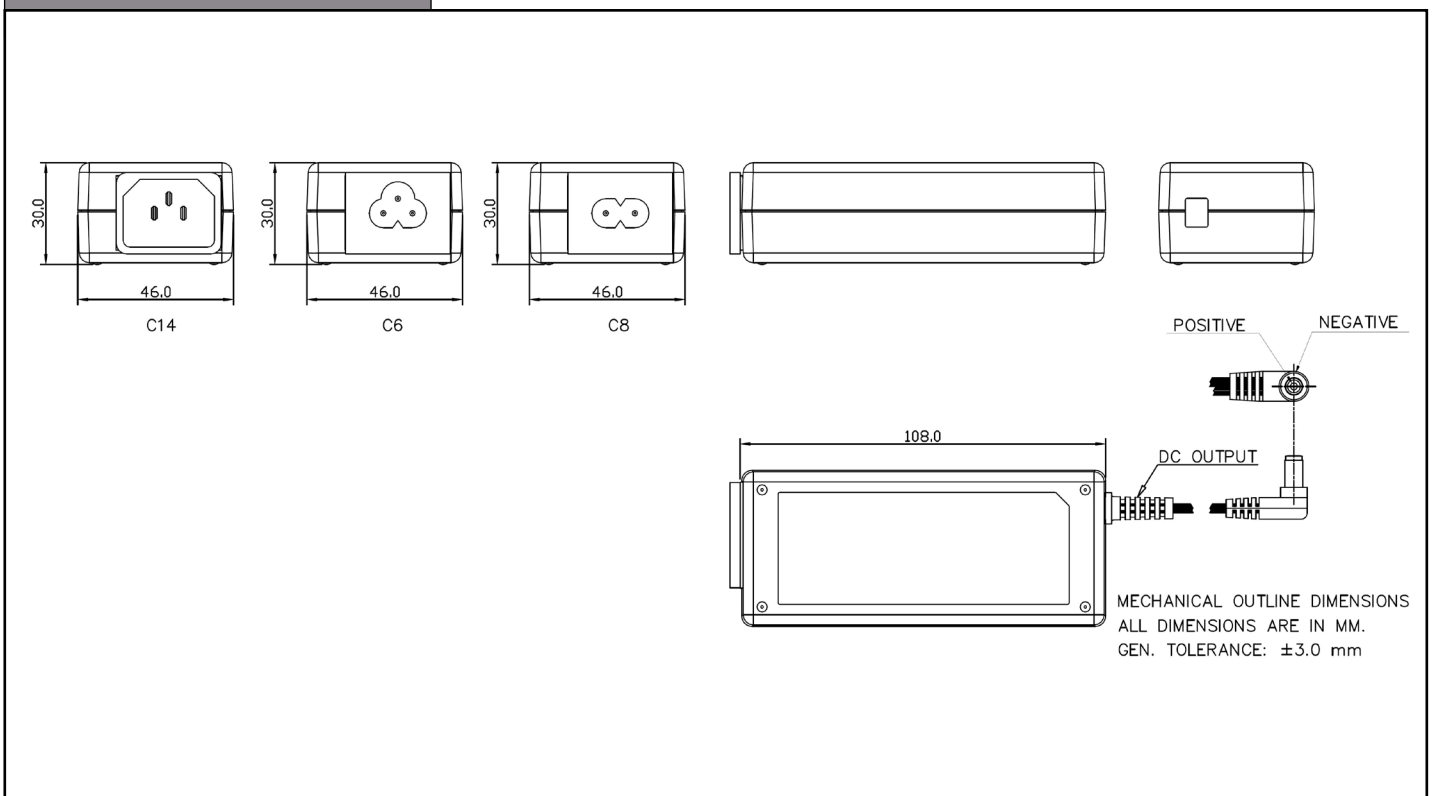
Zwingenstraße 6-8, 2380 Perchtoldsdorf, Austria
 Telefon: +43 1 86 305-0, Fax: +43 1 86 305-5000
 e-mail: office@codico.com, www.codico.com
 FN 436940i, Landesgericht Wr. Neustadt

Zertifiziert nach ISO 9001:2015

Safety Approvals

Safety Agency	Safety Standard	Notes & Conditions
UL	UL 62368-1 & CAN/CSA C22.2 No. 62368-1-14	Information Technology
Nemko	EN62368-1:2014/A11:2017	
CB	IEC62368-1:2014	
CE	LVD	
UL	ANSI /AAMI 60601	Medical, 2 x MOPP
CSA	CSA C22.2 No. 60601	
Nemko	EN60601-1	
CB	IEC60601-1	

Mechanical Details



Notes

1. Output plug: $\varnothing 5.5 \times \varnothing 2.5 \times 11.0$ mm, centre positive.



CODICO GmbH

Zwingenstraße 6-8, 2380 Perchtoldsdorf, Austria
 Telefon: +43 1 86 305-0, Fax: +43 1 86 305-5000
 e-mail: office@codico.com, www.codico.com
 FN 436940i, Landesgericht Wr. Neustadt

Zertifiziert nach ISO 9001:2015

STANDARD DC CABLE / CONNECTOR, AC CORD

AC CORD

EOS P/N	Description
CEL-22-LF00000005981	CORD, AC, US PLUG, C7, 2PIN, 2METER
CEL-22-LF00000007286	CORD, AC, US PLUG, C13, 3PIN, 2METER
CEL-22-LF00000007287	CORD, AC, EURO PLUG, C13, 3PIN, 2METER
CEL-22-LF00000007288	CORD, AC, EURO PLUG, C7, 2PIN, 2METER
CEL-22-LF00000007289	CORD, AC, UK PLUG, C7, 2PIN, 2METER
CEL-22-LF00000007290	CORD, AC, UK PLUG, C13, 3PIN, 2METER

Note: For minimum order & ship quantity consult your sales representative.

STANDARD DC CABLE / CONNECTOR

EOS P/N :	Suffix	Description	ID (mm)	OD (mm)	LB (mm)	L2 (mm)	Cord Length (Inch)
CEL-22-LF00000003311	A	2.54mm Straight Barrel	2.54	5.54	9.6	N/A	24*
CEL-22-LF00000003411	AR	2.54mm Right Angle with ferrite filter	2.54	5.54	9.6	25.4	40*
CEL-22-LF00000006739	AD	2.54mm Straight Barrel	2.54	5.54	10.16	N/A	52*
CEL-22-LF00000005949	BD	2.54mm Straight Barrel with ferrite filter	2.54	5.54	10.16	25.4	40*
CEL-22-LF00000003405	D	2.1mm Straight Barrel	2.1	5.54	9.6	N/A	40*
CEL-22-LF00000003249	GN	2.1mm Right Angle	2.1	5.54	9.6	N/A	6*
CEL-22-LF00000007565	BE	2.1mm Straight Barrel with ferrite filter	2.1	5.54	10.16	25.4	40*
CEL-22-LF00000007412	Z2	2.54mm Straight Barrel with ferrite filter	2.54	5.54	10.16	40	76*
CEL-22-LF00000007424	E1	2.1mm Right Angle	2.1	5.54	12.3	N/A	40*
CEL-22-LF00000007570	Z3	2.1mm Straight Barrel	2.1	5.54	10.16	N/A	40*
CEL-22-LF00000003406	E	2.5mm Right Angle	2.54	5.54	9.6	N/A	40*

1. To order a DC cable and connector , substitute the appropriate Suffix below.
2. *Example* : The eZVC65SG15D has DC connector ID of 2.1mm with straight barrel and 40 Inch long cord.
To receive ID of 2.54mm connector, order eZVC65SG15E.
3. All cables are 18GA & black color. for customized color request your sales representative

