

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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FCS40 Series

AC-DC Power Supplies



40 Watts

- 40 W Convection Rating
- 2" by 3" Footprint
- Low 1.04" Profile
- High Efficiency
- Medical and ITE Approvals
- Class I & Class II Installations
- High Power Density
- Less than 0.3 W No Load Input Power
- 3 Year Warranty



The FCS40 series is designed to minimize the no load power consumption and maximize efficiency to facilitate equipment design to meet the latest environmental legislation. Approved for medical and ITE applications in either Class I or Class II installations, this range of single output AC-DC power supplies are packaged in a low profile 1.04" height with a foot print of just 2" by 3". The FCS40 provides up to 40W convection-cooled over the full 90-264 VAC input range, and operates down to 80 VAC with minimal

vimensions:

FCS40

2.00 x 3.00 x 1.04" (50.8 x 76.2 x 26.4 mm)

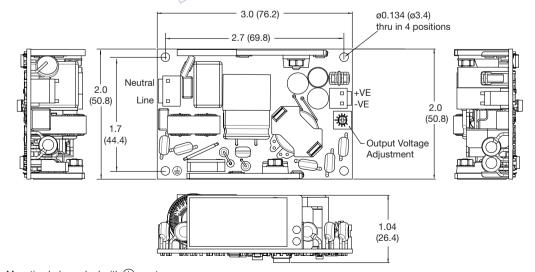
de-rating. The power supply features two AC line fuses and low leakage currents required by medical applications. The low profile, low noise and safety approvals covering ITE and medical standards allows the versatile FCS40 series to be used in a wide range of applications.

Models & Ratings

3.				
Output Power	Output Voltage	Output Current	Efficiency ⁽¹⁾	Model Number
40 W	12.0 V	3.34 A	82%	FCS40US12
40 W	15.0 V	2.67 A	85%	FCS40US15
40 W	18.0 V	2.23 A	85%	FCS40US18
40 W	24.0 V	1,67 A	85%	FCS40US24
40 W	36.0 V	1.11 A	84%	FCS40US36
40 W	48.0 V	0.83 A	86%	FCS40US48

Notes

Mechanical Details



Mounting hole marked with \bigoplus must be connected to safety earth for class I applications

CN1 - Input Connector				
Pin 1	Line			
Pin 2	Not Fitted			
Pin 3	Neutral			

Mates with JST housing VHR-3N and JST Series SVH-21T-P1.1 crimp terminals

CN2 - Output Connector				
Pin 1	+Vout			
Pin 2	-Vout			

Mates with JST housing VHR-2N and JST Series SVH-21T-P1.1 crimp terminals

Notes

- 1. All dimensions shown in inches (mm). Tolerance: ±0.02 (0.5)
- 2. Weight: 0.19 lbs (86 g) approx.

^{1.} Typical efficiency measured at full load and 230 VAC input.

FCS40 Series

AC-DC Power Supplies



Summary

Characteristic		Minimum	Typical	Maximum	Units	Notes & Conditions
Input Range		80	115/230	264	VAC	Derate output from 100% at 90 VAC to 90% at 85 VAC and 80% at 80 VAC
No Load Input Power		0.3 W				
Efficiency		86 % 230 VAC (see models and ratings table)		230 VAC (see models and ratings table)		
Operating Temperature)	-25 +70 °C See derating curve (fig.1)				See derating curve (fig.1)
Safety Approvals	ITE	IEC60950-1, IEC62368-1, EN62368-1, cUL62368-1				
Salety Approvals	Medical	IEC60601-1 Ed	IEC60601-1 Ed 3.1 Including Risk Management, ANSI/AAMI ES60601-1 & CSA C22.2 No.6061-1:08, EN60601-1			

Input

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Input Voltage - Operating	80	115/230	264	VAC	Derate output from 100% at 90 VAC to 90% at 85 VAC and 80% at 80 VAC
Input Frequency	47	50/60	63	Hz	Agency approval, 47-63 Hz
Power Factor					EN61000-3-2 class A
Input Current - Full Load		0.8/0.4		А	115/230 VAC
Inrush Current			60	А	264 VAC cold start, 25 °C
Earth Leakage Current			270	μА	264 VAC/60 Hz
No load Input Power			0.3	W	
Input Protection	T3.15 A/250 A,	250 V Internal fus	e fitted in line and	neutral.	
Output - Main Output					
Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Output Voltage	12		48	VDC	See Models and Ratings table
Initial Set Accuracy			±1	%	50% load, 115/230 VAC
Output Voltage Adjustment	10			%	
Minimum Load	0			А	No minimum load required
Start Up Delay		1	2	s	
Output Rise Time			50	ms	
Hold Up Time	8.3/20			ms	Min at full load 115/230 VAC
Line Regulation			±0.5	%	90-264 VAC
Load Regulation			1	%	0-100% load.
Transient Response			4	%	Recovery within 1% in less than 500 μs for a 50-75% and 75-50% load step
Over/Undershoot			5	%	Full load
Ripple & Noise			1	% pk-pk	20 MHz bandwidth
Overvoltage Protection	115		140	%Vnom	Continuous trip and restart (hiccup)
Overload Protection	110		180	% I nom	
Short Circuit Protection					Continuous trip and restart (hiccup)
Temperature Coefficient			0.05	%/°C	



General

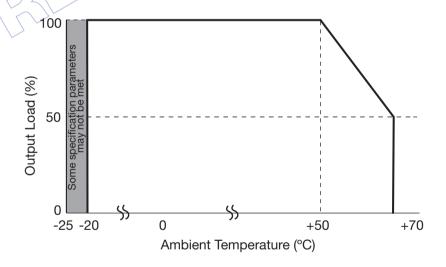
Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Efficiency		84		%	115/230 VAC, 100% load
Isolation: Input to Output	4000			VAC	2 MOPP
Input to Ground	1500			VAC	1 MOPP
Output to Ground	500			VAC	1 MOPP at output voltage
Power Density			6.4	W/in³	
Mean Time Between Failure	500			kHrs	MIL-HDBK-217F, Notice 2 +25 °C GB
Weight		0.19 (86.0)		lb(g)	

Environmental

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Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Operating Temperature	-25		+70	\\ c	See derating curve, fig.1
Storage Temperature	-40		+85	°C	
Humidity	5		95	%RH	Non-condensing
Operating Altitude		^ \	5000/4000	m	ITE/Medical
Shock	±3 x 30g shocks in each plane, total 18 shocks. 30g = 11ms (+/- 0.5msecs), half sine. Conforms to EN60068-2-27				
Vibration	Single axis 10-50	0 Hz at 2g sweep a	and endurance at resonance	e in all 3 planes.	Conforms to EN60068-2-6

Temperature Derating Curve

Figure 1



Notes

FCS40US12 ripple and noise is <1.5% from -25 °C to 0 °C reducing to <1% after 1 minute warm up.

EMC: Emissions

Phenomenon	Standard	Test Level	Notes & Conditions
Conducted	EN55011/32	Class B	
Radiated	EN55011/32	Class A	Class B with Wurth Electronics 742 700 91 with 4 turns on AC Input
Harmonic Current	EN61000-3-2	Class A	
Voltage Functions	EN61000-3-3		



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Medical Device EMC		<u> </u>		2 11 1	
EN61000-4-2	Phenomenon	Standard	Test Level	Criteria	Notes & Conditions
ESD					
Radiated	Low Voltage PSU EMC	EN61204-3	High severity level	as below	
EFT	ESD	EN61000-4-2	±8kV contact, ±15kV air	A	
Surge	Radiated	EN61000-4-3	3	Α	
Conducted EN61000-4-6 3	EFT	EN61000-4-4	3	А	
Magnetic Fields	Surge	EN61000-4-5	Installation class 3	Α	
Dip 100% (0 VAC), 8.4 ms	Conducted	EN61000-4-6	3	Α	
Dip 100% (0 VAC), 16.7 ms	Magnetic Fields	EN61000-4-8	4	Α	
Dip 60% (40 VAC), 200 ms B Dip 30% (70 VAC), 500 ms B Dip 20% (80 VAC), 5000 ms B Dip 20% (80 VAC), 5000 ms B Dip 20% (80 VAC), 5000 ms B Dip 100% (0 VAC), 5000 ms B Dip 30% (70 VAC), 5000 ms B Dip 30% (70 VAC), 5000 ms B Dip 30% (70 VAC), 5000 ms B Dip 20% (80 VAC), 5000 ms B Dip 20% (80 VAC), 5000 ms B Dip 20% (80 VAC), 5000 ms B Dip 30% (168 VAC), 5000 ms B Dip 30% (188 VAC), 5000 ms B Dip 20% (182 VAC), 5000 ms B Dip 20% (182 VAC), 5000 ms B Dip 20% (192 VAC), 5000 ms B Dip 30% (188 VAC), 5000 ms B Dip 100% (0 VAC), 10 ms A 20% derating Dip 100% (0 VAC), 10 ms A 50% derating Dip 100% (0 VAC), 20 ms A 50% derating Dip 30% (70 VAC), 5000 ms B Dip 30% (70 VAC), 5000 ms B Dip 30% (70 VAC), 5000 ms A 50% derating Dip 30% (0 VAC), 5000 ms B Dip 30% (0 VAC), 20 ms A 50% derating Dip 30% (0 VAC), 5000 ms B Dip 30% (0 VAC), 5000 ms B Dip 30% (0 VAC), 5000 ms A 50% derating Dip 30% (0 VAC), 5000 ms B Dip 30% (0 VAC), 5000 ms B Dip 30% (0 VAC), 5000 ms A 50% derating Dip 30% (0 VAC), 5000 ms B Dip 30% (0 VAC), 5000 ms A 50% derating Dip 30% (0 VAC), 5000 ms B Dip 30% (0 VAC), 5000 ms A 50% derating Dip 30% (0 VA			Dip 100% (0 VAC), 8.4 ms	Α	25% derating
Dip 30% (70 VAC), 5000 ms			Dip 100% (0 VAC), 16.7 ms	В	
Dip 30% (70 VAC), 500 ms B Dip 20% (80 VAC), 5000 ms B Int 100% (0 VAC), 5000 ms B Dip 100% (0 VAC), 84 ms A Dip 100% (0 VAC), 84 ms B Dip 100% (0 VAC), 16.7 ms B Dip 60% (40 VAC), 200 ms B Dip 30% (70 VAC), 5000 ms B Dip 30% (70 VAC), 5000 ms B Dip 30% (70 VAC), 5000 ms B Dip 100% (0 VAC), 5000 ms B Dip 100% (0 VAC), 5000 ms B Dip 100% (0 VAC), 200 ms B Dip 100% (0 VAC), 200 ms B Dip 20% (188 VAC), 5000 ms B Dip 20% (192 VAC), 5000 ms B Dip 30% (1188 VAC), 5000 ms B Dip 100% (0 VAC), 5000 ms B Dip 100% (0 VAC), 2000 ms B Dip 20% (192 VAC), 5000 ms B Dip 100% (0 VAC), 2000 ms B Dip 100% (0 VAC), 5000 ms B Dip 100% (0 VAC), 20 ms A 50% derating Dip 100% (0 VAC), 5000 ms A 50% derating Dip 30% (70 VAC), 5000 ms B Dip 30% (70 VAC), 5000 ms B Dip 30% (70 VAC), 5000 ms B Dip 100% (0 VAC), 5000 ms A 50% derating Dip 100% (0 VAC), 5000 ms B Dip 100% (0 VAC), 5000 ms A 50% derating Dip 100% (0 VAC), 5000 ms A 50% derating Dip 100% (0 VAC), 5000 ms A 50% derating Dip 100% (0 VAC), 5000 ms A 50% derating Dip 100% (0 VAC), 5000 ms A 50% derating Dip 100% (0 VAC), 5000 ms A 50% derating Dip 100% (0 VAC), 5000 ms A 50% derating Dip 30% (70 VAC), 5000 ms A 50% derating Dip 30% (70 VAC), 5000 ms A 50% derating Dip 30% (70 VAC), 5000 ms A 50% derating Dip 30% (70 VAC), 5000 ms A 50% derating Dip 30% (70 VAC), 5000 ms A 50% derating Dip 30% (70 VAC), 5000 ms A 50% derating Dip 30% (70 VAC), 5000 ms A 50% derating Dip 30% (70 VAC), 5000 ms A 50% derating Dip 30% (70 VAC), 5000 ms A 50% derating Dip 30% (70 VAC), 5000 ms A 50% derating Dip 30% (70 VAC), 5000 ms A 50% derating Dip 30% (70 VAC), 5000 ms A 50% derating Dip 30% (70 VAC), 5000 ms A 50% derating Dip 30% (70 VAC), 5000 ms A 50% derating Dip 30% (70 VAC), 5000 ms A 50% derating Dip 30% (70 VAC), 5000 ms A 50% derating Dip 30% (70 VAC), 5000 ms A 50% derating Dip 30% (70 VAC), 5000 ms A 50% derating		EN61000 4 11 (100 VAC)	Dip 60% (40 VAC), 200 ms	В	
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Dip 100% (0 VAC), 8.4 ms			Dip 20% (80 VAC), 5000 ms	В	
Dip 100% (0,VAC), 16.7 ms			Int 100% (0 VAC), 5000 ms	В	
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Dip 30% (168 VAC), 500 ms A			Dip 100% (0 VAC), 20 ms	A	
		EN60601-1-2 (240 VAC)	Dip 60% (96 VAC), 100 ms	A	
			Dip 30% (168 VAC), 500 ms	A	
Int 100% (0 VAC), 5000 ms B			Int 100% (0 VAC), 5000 ms	В	

Safety Approvals

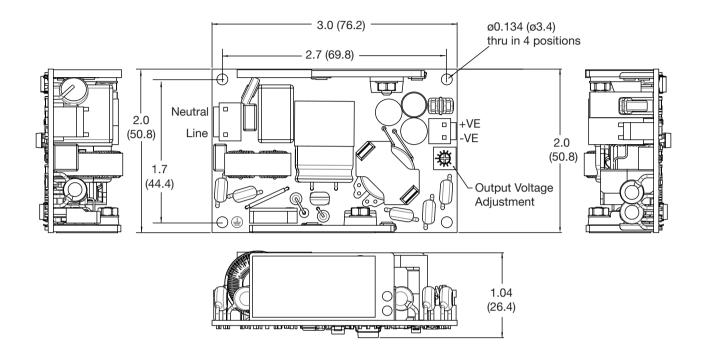
Safety Agency	Safety Standard	Notes & Conditions
CB Report	IEC60950-1:2005, IEC62368-1:2014	Information Technology
UL	cUL62368-1	Information Technology
TUV	EN62368-1	Information Technology
CE	LVD	

Safety Agency	Safety Standard	Notes & Conditions
CB Report	IEC60601-1 Ed 3.1 Including Risk Management	Medical
UL	ANSI/AAMI ES60601-1: & CSA C22.2 No.6061-1:08	Medical
CE	EN60601-1	Medical

Isolation	Safety Standard	Notes & Conditions
Primary to Secondary	2 x MOPP (Means of Patient Protection)	
Primary to Earth	1 x MOPP (Means of Patient Protection)	IEC60601-1 Ed 3.1
Secondary to Earth	1 x MOPP (Means of Patient Protection at output voltage)	



Mechanical Details



CN1 - Input Connector	
Pin 1	Line
Pin 2	Not Fitted
Pin 3	Neutral

Mates with JST housing VHR-3N and JST Series SVH-21T-P1.1 crimp terminals

CN2 - Output Connector		
Pin 1	+Vout	
Pin 2	-Vout	

Mates with JST housing VHR-2N and JST Series SVH-21T-P1.1 crimp terminals

Mounting hole marked with must be connected to safety earth for class I applications

Notes

1. All dimensions shown in inches (mm). Tolerance: ±0.02 (0.5)

2. Weight: 0.19 lbs (86 g) approx.