chanhvinh.com

TDK·Lambda

CSS65A Series

www.emea.tdk-lambda.com/css65a

Medical Industrial Comm Broadcast

2 x4” 40-65W AC-DC Medical & ITE Power Supplies



Features	Benefits
• Industry Standard Footprint	• Availability to Second Source
• Wide Range AC Input	• Global Operation
• Dual Input Fuses	• Easier System Compliance

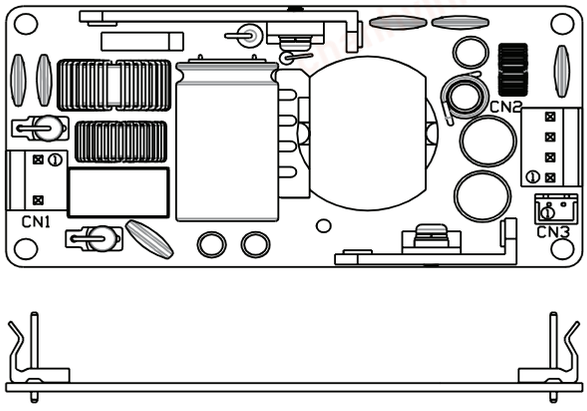
Specification

Model		CSS65A
Input Voltage Range	-	90 - 264VAC (47 - 63Hz)
Inrush Current (115/230VAC)	A	Less than 45A / 90A, 25°C ambient cold start
Input Current (115/230VAC)	A	2 / 1
Leakage Current	uA	<250uA 264VAC 63Hz
Touch Current	uA	<100uA 264VAC 63Hz
Hold Up Time (Typ)	ms	>10ms at 115VAC input
Off-Load Power Consumption	W	<75mW
Average Efficiency	%	5V: 86%, 12-54V: 89%
Temperature Coefficient	%/°C	±0.05%/°C
Output Voltage Accuracy	%	±1%
Output Adjustment Range	-	None
Remote Sense	-	Yes
Minimum Load	A	None
Output Regulation	%	5V: ±5%, 12-28V: ±3%, 48-54V: ±2%
Ripple & Noise	%	See Model Selector
Overcurrent Protection	-	110 - 180%, Auto-Recovery
Overvoltage Protection	V	110 - 130% of nominal (Cycle input power to reset)
Operating Temperature	°C	0°C to +70°C derate linearly to 50% load from 50°C to 70°C
Storage Temperature	°C	-40°C to +85°C
Humidity (non condensing)	%RH	10 - 90%RH
Cooling	-	Convection
Withstand Voltage	VAC	Input to Ground 1.5kVAC, Input to Output 4kVAC (Reinforced) (2 x MOPPS), Output to Ground 1.5kVAC (1xMOPPS).
Isolation Resistance	MΩ	>20MΩ at 25°C & 70%RH, Output to Ground 500VDC
Vibration (non operating)	-	23.52m/s^2 (10 - 55Hz: constant sweep 1 min X, Y, Z for 1 hour)
Shock	-	< 196.1 m/s^2 (20G)
Safety Agency Approvals	-	UL/CSA/IEC/EN60601-1, ANSI/AAMI ES60601-1, UL/CSA/IEC/EN60950-1, UL/CSA/IEC/EN62368-1, CE Mark
Conducted & Radiated EMI	-	EN55011-B, FCC Class B
Immunity	-	EN60601-1-2, IEC61000-4
Altitude	m	Medical: 3,000m, ITE: 5,000m
Weight (Typ)	g	136g
Size (WxLxH)	mm	50.8 x 101.6 x 30.5 (including underside components)
Warranty	yrs	3

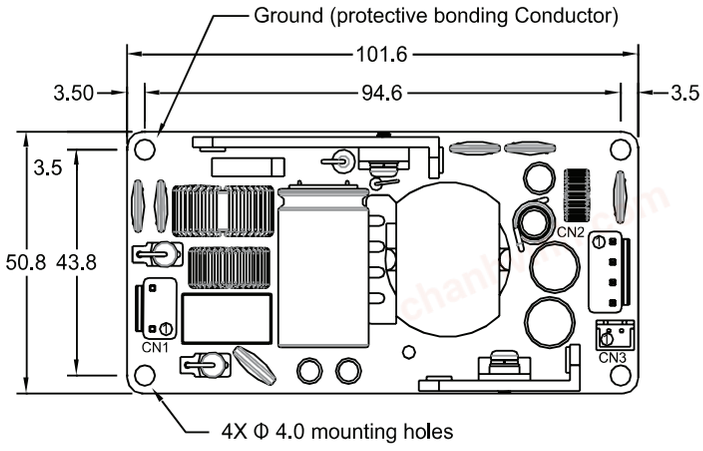
chanhvinh.com

Outline Drawing CSS65A Series

Input/Output Connectors (Molex)



JST Input/Output Connectors shown (/J option)



CN1: Input Connector
JST B3P-VH-B pitch: 3.96mm or equivalent, mates with JST VHR-3N or equivalent

Pin #	Signal
1	AC Neutral
2	AC Line

TKP P8800I P8800I-03 or Molex equivalent mates with MOLEX 5239 09-65-4034 or equivalent

Pin #	Signal
1	AC Line
2	AC Neutral

CN2: Main Output Connector
JST B4P-VH-B pitch: 3.96mm or equivalent, mates with JST VHR-4N or equivalent

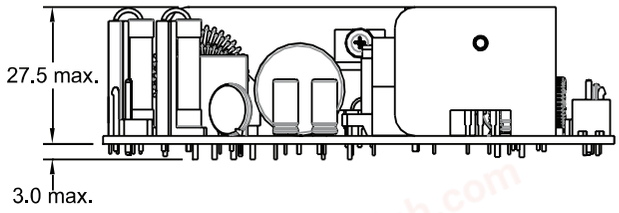
Pin #	Signal
1	GND
2	GND
3	+Vo
4	+Vo

TKP P8800I P8800I-04 or Molex equivalent mates with MOLEX 5239 09-52-4044 or equivalent

Pin #	Signal
1	+Vo
2	+Vo
3	GND
4	GND

CN3: Remote Sense Connector
JST B2B-XH-A pitch: 2.5mm or equivalent, mates with JST XHP-2 or equivalent

Pin #	Signal
1	+Vo Sense +
2	+Vo Sense -



Model Selector

Model	Output (V)	Maximum Output (A)	Maximum Power (W)	Ripple and Noise Full Load (mV)	Ripple and Noise <30% Load (mV) (1)
CSS65A-5	5	8.0	40	100	200
CSS65A-12	12	5.42	65	120	200
CSS65A-15	15	4.34	65	120	300
CSS65A-19	19	3.43	65	120	300
CSS65A-24	24	2.71	65	200	300
CSS65A-28	28	2.33	65	200	350
CSS65A-48	48	1.36	65	200	480
CSS65A-54	54	1.21	65	200	480

Notes: (1) Ripple level increases at light loading to meet new efficiency standards

Options

Suffix	Description
Blank	Molex Input and Output Connectors
/J	JST Input and Output Connectors

chanhvinh.com

TDK·Lambda



TDK-Lambda France SAS
Tel: +33 1 60 12 71 65
tlf.fr.powersolutions@tdk.com
www.emea.lambda.tdk.com/fr



Italy Sales Office
Tel: +39 02 61 29 38 63
tlf.it.powersolutions@tdk.com
www.emea.lambda.tdk.com/it



Netherlands
tlf.nl.powersolutions@tdk.com
www.emea.lambda.tdk.com/nl



TDK-Lambda Germany GmbH
Tel: +49 7841 666 0
tlg.powersolutions@tdk.com
www.emea.lambda.tdk.com/de



Austria Sales Office
Tel: +43 2256 655 84
tlg.at.powersolutions@tdk.com
www.emea.lambda.tdk.com/at



Switzerland Sales Office
Tel: +41 44 850 53 53
tlg.ch.powersolutions@tdk.com
www.emea.lambda.tdk.com/ch



Nordic Sales Office
Tel: +45 8853 8086
tlg.dk.powersolutions@tdk.com
www.emea.lambda.tdk.com/dk



TDK-Lambda UK Ltd.
Tel: +44 (0) 12 71 85 66 66
tlu.powersolutions@tdk.com
www.emea.lambda.tdk.com/uk



TDK-Lambda Ltd.
Tel: +9 723 902 4333
tli.powersolutions@tdk.com
www.emea.lambda.tdk.com/il-en



TDK-Lambda Americas
Tel: +1 800-LAMBDA-4 or 1-800-526-2324
tla.powersolutions@tdk.com
www.us.lambda.tdk.com



TDK Electronics do Brasil Ltda
Tel: +55 11 3289-9599
sales.br@tdk-electronics.tdk.com
www.tdk-electronics.tdk.com/en



TDK-Lambda Corporation
Tel: +81-3-6778-1113
www.jp.lambda.tdk.com



TDK-Lambda (China) Electronics Co. Ltd.
Tel: +86 21 6485-0777
tlc.powersolutions@tdk.com
www.lambda.tdk.com.cn



TDK-Lambda Singapore Pte Ltd.
Tel: +65 6251 7211
tls.marketing@tdk.com
www.sg.lambda.tdk.com



TDK India Private Limited, Power Supply Division
Tel: +91 80 4039-0660
mathew.philip@tdk.com
www.sg.lambda.tdk.com

chanhvinh.com