

40-65W 90-305V AC-DC Power Supplies

Features

- ◆ Accepts 115/230/277VAC Nominal Inputs
- ◆ DIN Rail Mount Option
- ◆ Global Safety Agency Compliance
- ◆ <150mW Off-Load Power Consumption
- ◆ DOE Efficiency Level VI, ErP Tier 2
- ◆ Class 2 24V Model to UL1310



Key Market Segments & Applications



Specifications

Model		CSW65
Input Voltage range	-	90 - 305VAC (47 - 63Hz)
Inrush Current (230VAC)	A	Less than 65A, 25°C ambient cold start
Input Current (115/230VAC)	A	2 / 1
Hold Up Time (Typ)	ms	>10ms at 115VAC input
Off-Load Power Consumption	W	<150mW
Average Efficiency	%	5V: 87.2%, 12-54V: 89%
Temperature Coefficient	%/°C	±0.05%/°C
Output Voltage Accuracy	%	±1%
Output Adjustment Range	-	None
Remote Sense	-	No
Minimum Load	A	None
Output Regulation	%	5-24V: ±3%, 28-54V: ±2%
Ripple & Noise	%	See Model Selector
Overcurrent Protection	-	105 - 160%, Auto-Recovery
Overvoltage Protection	V	See Model Selector (Cycle AC to reset)
Operating Temperature	°C	-10 to +70°C derate linearly to 50% load from 50 to 70°C*
Storage Temperature	°C	-20 to +85°C
Humidity (non condensing)	%RH	5 - 95%RH
Cooling	-	Convection
Withstand Voltage	VAC	Input to Ground 1.5kVAC, Input to Output 3kVAC Output to Ground 500VDC
Isolation Resistance	MΩ	>20MΩ at 25C & 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 Certifications	-	UL/CSA/IEC/EN60950-1, UL/CSA/IEC/EN62368-1, UL1310 Class 2 (1), CE Mark
Conducted & Radiated EMI	-	EN55032-B, FCC Class B
Immunity	-	EN55024
Weight (Typ)	g	U channel: 250, /A: 270, /D: 290
Size (WxLxH) U-Channel	in	2.5 x 4.75 x 1.5"
	mm	63.5 x 120.7 x 38.1mm
Warranty	yrs	Three Years

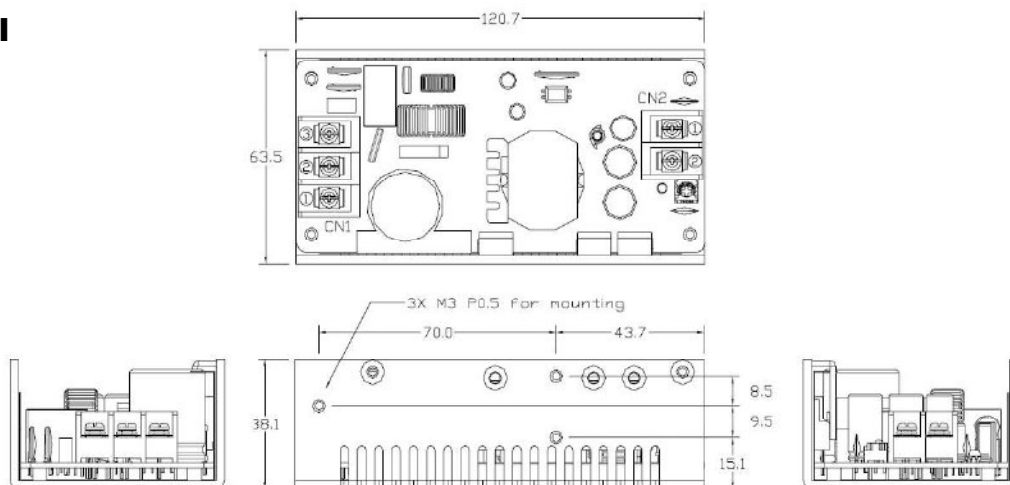
Note:

* Derate linearly to 90% load from 0°C to -10°C

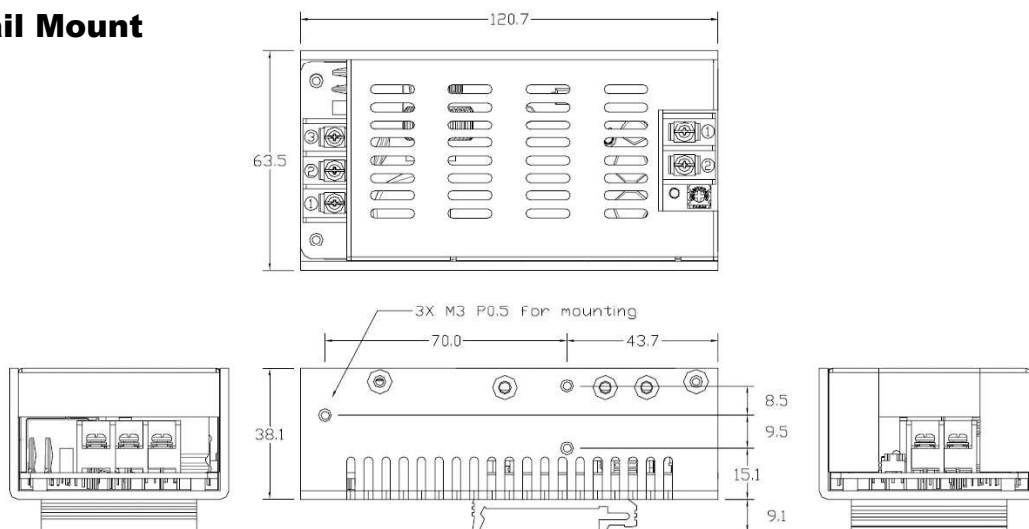
(1) NEC Class 2 in accordance with UL1310. CSW65-24 only)

Outline Drawings

U Channel



/D DIN Rail Mount



Model Selector

Model	Output (V)	Maximum Output (A)	Maximum Power (W)	Ripple and Noise (mV)	Overvoltage (V)
CSW65-5	5	8.0	40	100	6 - 8
CSW65-12	12	5.42	65	120	13.2 - 15.6
CSW65-15	15	4.34	65	150	16.5 - 19.5
CSW65-18	18	3.62	65	180	19.8 - 23.4
CSW65-24	24	2.71	65	240	26.4 - 31.2
CSW65-28	28	2.33	65	280	30.8 - 36.4
CSW65-48	48	1.36	65	280	52.8 - 62.4
CSW65-54	54	1.21	65	280	59.4 - 64.8

Options

Suffix	Description
Blank	U-Channel
/A	U-Channel & Cover
/D	U-Channel, Cover & DIN Rail Bracket

For Additional Information, please visit
<https://product.tdk.com/en/power/>

