

240W 24V Output Power Supply with EN62477-1 OVC III

Features

- ◆ Certified to IEC/EN62477-1 OVC III
- ◆ 12 Year e-cap Lifetime
- ◆ 5 Year Warranty
- ◆ Convection Cooling



Key Market Segments & Applications



Specifications

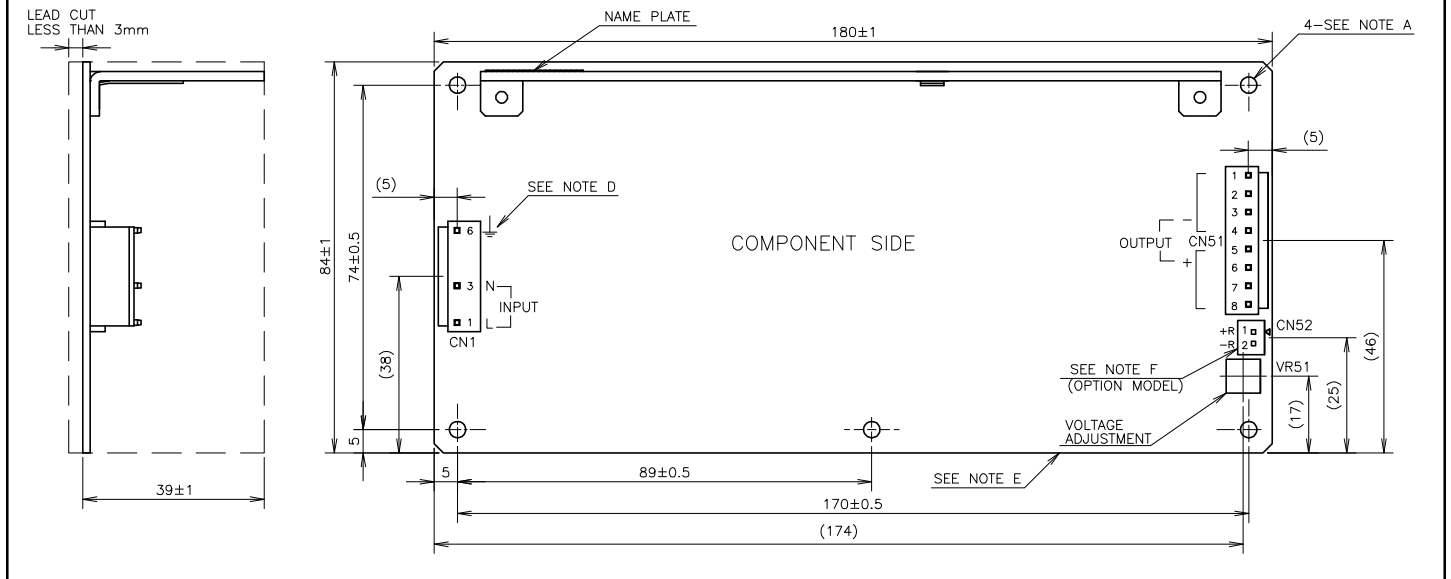
Model		ZWS240RC-24
Nominal Output Voltage	V	24V
Maximum Output Current	A	10A
Maximum Output Power	W	240W
Efficiency (typ)	%	87 / 90% (100 / 200VAC)
AC Input Voltage range (1)	-	85 - 265VAC (47 - 63Hz)
Input Current (typical) (2)	A	2.8 / 1.5A
Inrush Current - cold start (2)	A	15 / 30A
PFHC	-	Active Power Factor Correction - Designed to meet EN/IEC61000-3-2
Power Factor (2)	-	0.93 / 0.9
Output Voltage Accuracy	%	±2%
Output Voltage Range	VDC	21.6 - 26.4V
Ripple and Noise (pk-pk)	mV	200mV (0 to +70°C) (Maximum)
Line Regulation	mV	96mV (Maximum)
Load Regulation	mV	150mV (Maximum)
Temperature Coefficient	%/°C	<0.02%/°C
Overcurrent Protection	-	>10.5A
Overvoltage Protection	V	27.6 - 32.4V (Cycle AC to reset)
Hold Up time (Typ) (2)	ms	31ms
Leakage Current (Typ) (3)	mA	0.2 / 0.4mA
Cooling	-	Convection
Operating Temperature (4)	°C	-10°C to +70°C, derate linearly to 30% load from 50°C to 70°C
E-cap lifetime (5)	Years	Up to 12 years; 50°C ambient, 100% full load, 24 hours a day operation
Storage Temperature	°C	-30°C to +75°C
Humidity (non condensing)	%RH	Operating: 30 - 90%RH, Storage: 10 - 90%RH
Withstand Voltage	VAC	I/P to Gnd 2kVAC (10mA), I/P to O/P: 3kVAC (10mA), O/P to Gnd: 500VAC (20mA) for 1min
Isolation Resistance	Ω	>100MΩ at 25°C & 70%RH, Output to Gnd: 500VDC
Vibration (non operating)	-	10 - 55Hz (1 minute sweep), 19.6 m/s ² constant X, Y, Z 1 hour each
Shock	-	<196.1m/s ²
Safety Agency Certifications	-	IEC/EN/UL/CSA60950-1, IEC/EN/UL/CSA62368-1, EN62477-1 (OVC III) and CE Mark
Conducted Emission	-	EN55011 / EN55032-B, FCC-B, VCCI-B
Radiated Emission	-	EN55011 / EN55032-A, FCC-A, VCCI-A
Immunity	-	IEC61000-6-2 ; IEC61000-4-2, -3, -4, -5, -6, -8, -11
Weight (Typ)	g	520g
Size (W x H x D)	mm	84 x 42 x 180mm
Warranty	Years	Five Years

Notes:

- (1) Derate linearly to 80% load from 90 to 85VAC input
 (2) 100/200VAC, full load
 (3) 100/230VAC

- (4) Refer to Application Notes
 (5) Refer to Reliability Data

Outline Drawing



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



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