

FEATURES

- Synchronization
- 6 sided Continuous Shielding
- 9.38W/In³ Power Density
- Efficiency to 82%
- VDE / EN 60950 Approved
- >1,000,000 Hours MTBF

DESCRIPTIONS

The 800 series is family of miniature, high performance and high reliability DC/DC converters. The 800 series operates over 2:1 input voltage ranges of 9 to 18, 18 to 36 or 36 to 72VDC; providing single, dual and triple output combinations of 5, 12, 15, ± 5 , ± 12 , ± 15 , 5/ ± 12 and 5/ ± 15 VDC. Standard features include 500VDC input/output isolation, efficiency as high as 82%, tight line/load regulation and low output ripple and noise. All 24 models are packaged in compact, low profile 1" X 2" X 0.4" metal cases.

OUTPUT CHARACTERISTICS

	Min	Typ	Max	Unit/Comments
Output Voltage Accuracy				
Single & Dual Outputs			± 1.0	% ¹
Triple Outputs - Primary			± 1.0	% ¹
- Auxiliaries			± 6.0	% ¹
Voltage Balance:				
Dual Outputs			± 1.0	%; Equal Output Loads
Triple Outputs (Auxiliaries)			± 1.0	%; Equal Output Loads
Minimum Load	10%			Full Load
Line Regulation				
Single & Dual Outputs			± 0.5	% ²
Triple Outputs - Primary			± 0.5	% ²
- Auxiliaries			5.0	% ²
Load Regulation				
Single Outputs			± 0.5	% ³
Dual Outputs			± 1.0	% ³ ; Equal Loads
Triple Outputs - Primary			± 0.5	% ³
- Auxiliaries			± 6.0	% ³ ; Equal Loads
Ripple/Noise			2	% of Vout (20 MHz B.W.)
Short Circuit Protection				Continuous, Auto-matic Recovery
Transient Recovery Time		200		μ S to within 1% error band for 50% step load change
Temperature Coefficient			± 0.01	% per °C
Over Voltage Protection				See Model Selection Guide

INPUT CHARACTERISTICS

	Min	Typ	Max	Unit/Comments
Input Voltage Range				
12 VDC Input Models	9	12	18	VDC
24 VDC Input Models	18	24	36	VDC
48 VDC Input Models	36	48	72	VDC
Remote On / OFF Control				
Supply ON				0 VDC to 0.6 VDC
Supply OFF				1 VDC to 5 VDC
Logic Referenced to Negative Input				
Input Filter				LC Type
Input Fuse Rating				See Model Selection Guide

GENERAL CHARACTERISTICS

	Min	Typ	Max	Unit/Comments
Switching Frequency	100			kHz
Isolation Voltage	500			VDC, 1 minute
Isolation Resistance	1000			Mohm, 500VDC
MTBF (MIL-HBK-217F)	1			Million Hours, +25°C, Ground Benign

¹ = Output voltage at nominal line & FL

² = % Output voltage measured from min. input line to maximum

³ = Output voltage measured from FL to 10% Load

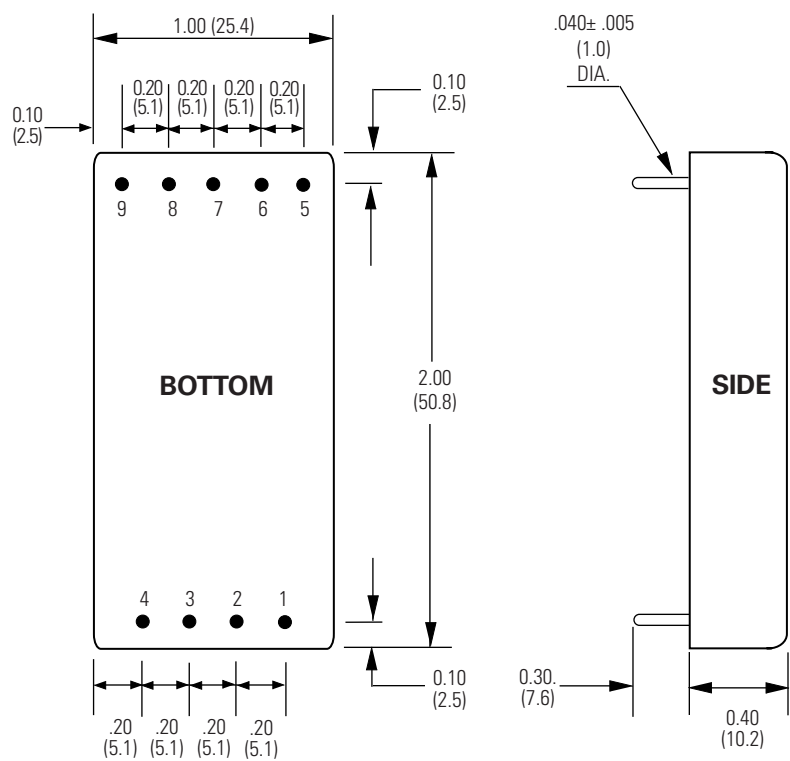
ENVIRONMENTAL SPECIFICATIONS

	Min	Typ	Max	Unit/Comments
Operating Temp. Range	-30		+75	°C; Ambient
Storage Temp. Range	-40		+125	°C
Relative Humidity			95	% Humidity; non-condensing
Cooling				Free-Air Convection

PHYSICAL CHARACTERISTICS

	Unit/Comments
Case Size	1.0 X 2.0 X 0.4 inches (25.5 X 51.0 X 10.2 mm)
Case Material	Coated Metal
Shield Connection	
12V and 24V Input Models	Negative Input, Pin 3
48V Input Models	Positive Input, Pin 4
Flammability	UL94V-0
Weight	42.5 Grams

OUTLINE DRAWING



PIN OUT CHART

Pin	Single	Dual	Triple
1	Remote On/Off	Remote On/Off	Remote On/Off
2	Sync	Sync	Sync
3	- Vin	- Vin	- Vin
4	+ Vin	+ Vin	+ Vin
5	NC	- Vout	- Vout (Aux)
6	NC	Common	Common(Aux)
7	NC	+ Vout	+Vout (Aux)
8	- Vout	NC	+5V Common
9	+ Vout	NC	+5V Vout

NC = No Connection

Notes:
1. Unless otherwise specified dimensions are in inches (mm).
Tolerances Inches mm
 X.XX = ±0.02 X.X = ±0.5

All specifications are typical at nominal input, nominal load and 25° C unless otherwise specified.
External, low ESR, 10 microfarad (minimum) capacitor across output is recommended for operation.

Example: **8 XX / 15 T XX**

Wattage	8	XX / 15	T	XX	Nominal Input Voltage
Main Output Voltage					
Aux Output Voltage					
					Output Configuration (T= Triple)

805S12	12	5	1500	46	780	30	6.8	1500	79
812S12	12	12	625	46	786	30	15.0	1500	79
815S12	12	15	500	46	786	30	18.0	1500	79
805D12	12	±5	±750	46	786	30	±6.8	1500	79
812D12	12	±12	±300	46	786	30	±15.0	1500	80
815D12	12	±15	±250	46	786	30	±18.0	1500	80
805S24	24	5	1500	55	384	40	6.8	750	81
812S24	24	12	625	55	384	40	15.0	750	81
815S24	24	15	500	55	384	40	18.0	750	82
805D24	24	±5	±750	55	382	40	±6.8	750	82
812D24	24	±12	±300	55	382	40	±15.0	750	82
815D24	24	±15	±250	55	382	40	±18.0	750	82
805S48	48	5	1500	40	198	30	6.8	500	79
812S48	48	12	625	40	198	30	15.0	500	79
815S48	48	15	500	40	198	30	18.0	500	79
805D48	48	±5	±750	40	204	30	±6.8	500	78
812D48	48	±12	±300	40	198	30	±15.0	500	79
815D48	48	±15	±250	40	198	30	±18.0	500	79
805/12T12	12	5, ±12	1000±100	42	843	36	6.8, ±15.0	2000	79
805/15T12	12	5, ±15	1000±100	42	843	36	6.8, ±18.0	2000	79
805/12T24	24	5, ±12	1000±100	42	411	36	6.8, ±15.0	1000	81
805/15T24	24	5, ±15	1000±100	42	411	36	6.8, ±18.0	1000	81
805/12T48	48	5, ±12	1000±100	40	203	33	6.8, ±15.0	500	82
805/15T48	48	5, ±15	1000±100	40	203	33	6.8, ±18.0	500	82



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