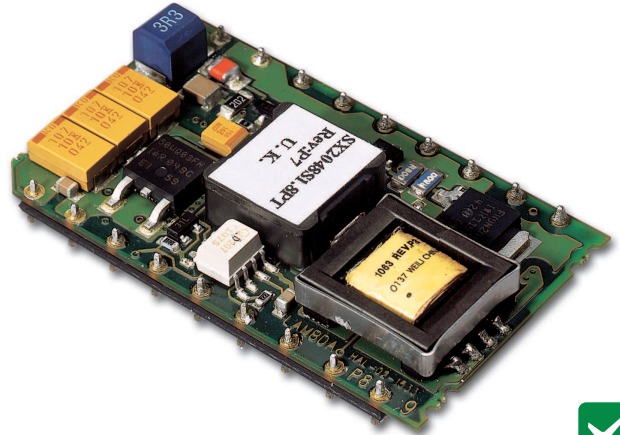


High Density DC/DC Converter Specifications

Features

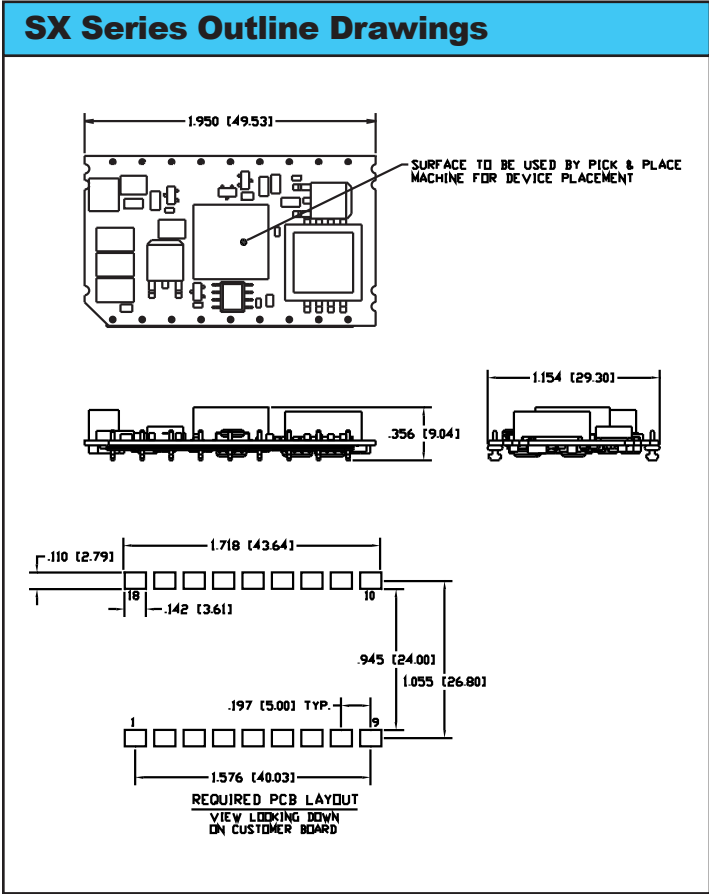
- ◆ 20W in a 1" x 2" industry standard package
- ◆ Output turn-on time within <10ms
- ◆ Low voltage outputs from 1.8V
- ◆ Meets conducted EMI Level B performance with external filtering
- ◆ High current low voltage models
- ◆ Both 24V and 48V inputs available
- ◆ Global safety agency approval UL, CSA, CE, TUV



Specifications					
Model		SX20-24S1.8	SX20-24S2.5	SX20-24S03	SX20-24S05
		SX20-48S1.8	SX20-48S2.5	SX20-48S03	SX20-48S05
Nominal Output Voltage	V	1.8	2.5	3.3	5.0
Rated Output Current	A	7.0	6.0	5.5	4.0
Rated Output Power	W	12.6	15.0	18.2	20.0
Efficiency (Typ.)	(*1) %	78 / 80	82 / 84	85 / 87	87 / 89
Input Voltage Range	-	18-36VDC (24V models); 36-75VDC (48V models)			
Input Current (Typ.)	(*1) A	0.67 / 0.33	0.76 / 0.37	0.89 / 0.44	0.96 / 0.47
Switching Frequency	-	200 KHz, all models			
Output Voltage Adjustment	-	Adjustable ±10%			
Over Temperature Protection	-	Self Recovering			
Max Ripple & Noise	mVpp	75			
Max Line Regulation	mV	10			
Max Load Regulation	mV	15	15	15	15
Over Voltage Protection	-	3.5Vmax	4.0Vmax	5.0Vmax	7.2Vmax
Overload/Short Circuit	-	Continuous, Self Recovering			
Remote ON/OFF Control	-	Both logic high/low options available, TTL compatible 1mA sink current			
Isolation (input to output)	-	1500VDC			
Conducted EMI	-	EN55022 Level B, FCC Level B, ANSI63.12-1987 w/ external filter			
Operating Temperature	-	-40°C to 105°C			
Cooling	-	Convection cooling allows full output ratings			
Dynamic Load Response	-	100mV deviation (1.8V-5V), 0.25ms settling for a 25% step load change			
Undervoltage Lockout	-	24V input, 11V min, 14V typical; 48V input, 20V min, 27V typical			
Regulatory Agency Compliance	-	UL1950, Third Edition CSA 22.2 No. 950-95, EN60950, CE mark			
Vibration	-	2.5G RMS, 10Hz-500Hz sweep vibration, 1 Hr. per axis			
Shock	-	70G/6msec. half sine, 3 shocks x 6 sides =18 total			
Weight (Typ.)	g	17			
Size (W×H×D)	in	1.95" x 1.15" x 0.35"			

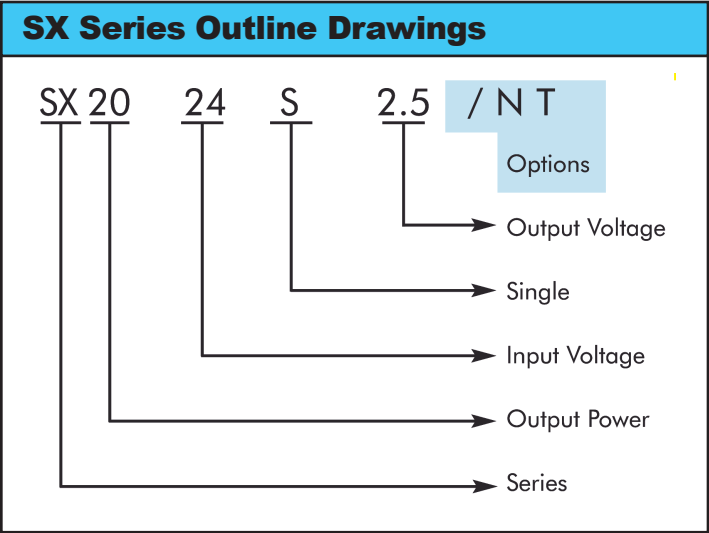
*1 Vin (nom). First value applies to 24V input (Nom), second value to 48V input. (Nom)

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Options

Suffix	Description
/NT	Negative logic remote on/off and output voltage adjustment.
/PT	Positive logic remote on/off and output voltage adjustment.



Pin Configuration

Pin	Function	Pin	Function
18	Vin(+)	1	Vo(+)
17	Vin(-)	2	Vo(-)
11	ON/OFF	8	TRIM

For Additional Information, please visit us.tdk-lambda.com/lp/products/x-series.htm



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