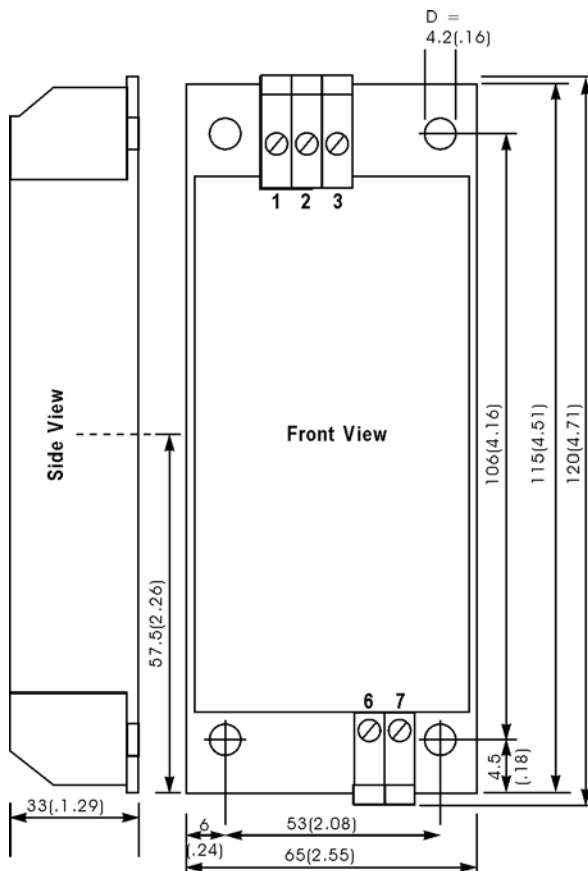


SCD Series, Encapsulated, Industrial DC to DC Converter

Selection Table

Low Profile Catalog Num- ber	Description	Output Voltages				Min Load V1 A
		V1		V2		
		Vdc	A	Vdc	A	
30 Watts; Switching DC Power Supply						
SCD 30S5-DN	5 V	5	5	-	-	0
SCD 30S12-DN	12 V	12	2.5	-	-	0
SCD 30S15-DN	15 V	15	2	-	-	0
SCD 30S24-DN	24 V	24	1.3	-	-	0
SCD 30S48-DN	48 V	48	0.6	-	-	0
SCD 30D15-DN	Dual O/P+15 V	15	0.8	-15	0.8	0.15

Dimensions



Pin-Out

SCD 30	1	2	3	6	7
Single	+V1	-V1		+IN	-IN
Dual	V1	COM	V2	+IN	-IN

Specifications

Parameter	Condition	Value
Input		
Input Voltage		20...72 Vdc
Filtering EMI/RFI		EN 55011/B, 55022/B
Switching Frequency		Typ. 100 kHz
Output		
Output Voltage Accuracy	$V_{in} = 48V$, $I_{out} = \text{max}$, 25°C	$V1 \leq \pm 1\%$, $V2 \leq \pm 4\%$
Ripple	$V_{in} = \text{min}$, $I_{out} = \text{max}$, 25°C	$\leq 1\%$, V_{out}
Noise	$V_{in} = \text{min}$, $I_{out} = \text{max}$, 25°C	$\leq 2\%$, V_{out}
Line Regulation	$V_{in} = \text{min/max}$ 25°C $I_{out} = \text{max}$, 25°C	$\leq +0.5\%$, V_{out}
Load Regulation	$I_{out} = 10...90...10\%$, 25°C, $V_{in} = 48 V$, 25°C	$\leq +0.5\%$, V_{out}
Overcurrent Protection		105...130% I_{nom}
Load Regulation Timing	10...90...10%, 25°C	<4 ms
Temperature Coefficient	$T_A = -25...+65^\circ C$	0.01%/K
Overload/Short Circuit		Continuous
Derating Single/Dual/ Triple	$T_A > 50^\circ C$	5%/K max
General		
Holdup Time	$V_{in} = 48 V$	>10 ms
Operating Temperature		-25...+65°C
Storage Temperature	$T_A = 25^\circ C$	45...+85°C
Case Temperature Rise at Full Load		45 K max
MTBF at 25°C (input/output)	acc. MIL-STD-217F	800,000 hrs
Transient Protection		EN61000-4-2, 3, 4, 5
Cooling		Convection
Weight – lbs (kg)		0.86 lbs (.39 kg)
Case Material/Potting		UL94-VO
CSA Power Supply Class		Level 3
Protection		IP20

Note: No input protection against reverse voltage.