



SCD Series, Encapsulated, Industrial DC to DC Converter

These compact, rugged DC to DC converters are power supplies designed to power industrial control instrumentation devices and equipment where AC power is not convenient or accessible. With high reliability and wide input range, these units can operate through the most difficult factory-floor conditions around the globe. "User friendly" applies to these unique power supplies that feature easy-to-install DIN Rail and chassis mounting. Terminations are also easy to access and simple to wire. Encapsulated design meets IP20 specifications for use in harsh environments.

Features

- DIN Rail or Chassis mount by removing DIN clips
- Rugged, encapsulated design to resist environment
- IP20 protection
- Wide 20 to 72 Vdc input range
- M3 screw clamp terminations
- Simple snap-on for DIN Rail TS35/7.5 or TS35/15
- Galvanic isolation
- 5 year warranty

Options and Accessories

- SCP-MDC Pair of metal DIN clips
- SCP-PDC 1 plastic DIN clip with lever for removal from rail

Standards

- UL60950, E137632
- EN60950
- CE and IP20
- UL 508 Listed





FQ F6I379



EMC and Low Volt.

C22.2 No. 234-M90 Low Volt. Directive

Applications

These units regulate voltage for sensitive electronic equipment run from battery power. For example, a 24 Vdc battery system where the battery voltage can be 30 volts, sometimes higher during charging, and dip below 22 volts under heavy load. The SCD can be used to stabilize the voltage for those devices not designed to handle wider voltage swings.

They are also a convenient and inexpensive alternative to running AC power through a large industrial machine. The SCD can use 24 Vdc commonly available on many parts of the machine to create other voltages needed to run sensors, transducers and other devices that the machine requires to work properly.

- Industrial
 - Encoders, special sensors, communications and instrumentation
- Telecommunications systems
- Remote Site/Harsh Environment

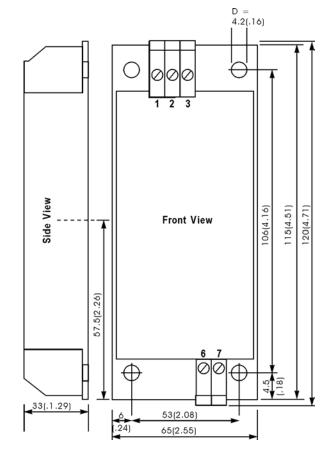


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Selection Table

Low Profile	Description	Output Voltages				Min	
Catalog Num- ber		V1		V2		Load	
		Vdc	A	Vdc	A	V1 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		2072 Vdc					
Filtering EMI/RFI		EN 55011/B, 55022/B					
Switching Frequency		Typ. 100 kHz					
Output							
Output Voltage Accuracy	V _{in} = 48V, I _{out} = max, 25°C	V1 ≤ ±1%, V2 ≤ ±4%					
Ripple	V _{in} = min, I _{out} =max, 25°C	≤1%, V _{out}					
Noise	V _{in} = min, I _{out} = max, 25°C	≤2%, V _{out}					
Line Regulation	V _{in} =min/max 25°C I _{out} = max, 25°C	≤+0.5%, V _{out}					
Load Regulation	l _{out} = 109010%, 25°C, V _{in} = 48 V, 25°C	≤+0.5%, V _{out}					
Overcurrent Protection		105130% I _{nom}					
Load Regulation Timing	109010%, 25°C	<4 ms					
Temperature Coefficient	T _A = -25+65°C	0.01%/K					
Overload/Short Circuit	Cont	tinuous					
Derating Single/Dual/ Triple	T _A >50°C	5%/K max					
	General						
Holdup Time	V _{in} = 48 V	>10 ms					
Operating Temperature		-25+65°C					
Storage Temperature	T _A = 25°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.