

DC/DC Converters – SRK-S/D1 series

1.5 WATT (available also 2, 3, 4, 5, 6 WATT series)
Single / Dual Output

FEATURES

- 1500 Vdc Isolation
- Wide 4:1 Input Range
- 24 Pin DIL Package
- Regulated
- Continuous short Circuit Protection
- Plastic case standard, Optional metal case

Input specifications:	
Filter:	π (Pi) Network
Voltage Range	24Vdc, 09-36Vdc, 48Vdc, 36-72Vdc
Isolation specification:	
Rated Voltage	1500 Vdc, Standard
Resistance	1000M Ω Min.
Capacitance	60 pF, Typ.
Output specifications:	
Voltage accuracy	$\pm 1\%$, Max
Voltage Balance	$\pm 1\%$
Ripple & noise (at 20MHz BW)	60 mV pk-pk
Short Circuit Protection	Continuous
Line regulation	$\pm 0.5\%$ Max.
Load regulation	$\pm 0.5\%$ Max.
Temperature coefficient	$\pm 0.02\%/^{\circ}\text{C}$
General Specifications:	
Efficiency	Up to 74%
Switching Frequency	100K ~ 400 kHz, Typ.
Environmental specifications:	
Operating Temperature	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
Case temperature	100 $^{\circ}\text{C}$ Max.
Storage Temperature	$-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$
Derating	None required
Humidity	95%
Cooling	Nature Convection

Model Number	Input Vdc	Output Vdc	Output Current (mA)	Efficiency @FL (%)
SRK-2405S1	9-36	5	100	68
SRK-2409S1		9	55,7	70
SRK-2412S1		12	41,7	72
SRK-2415S1		15	33,3	72
SRK-2424S1		24	20,8	71
SRK-2405D1	9-36	± 5	± 50	66
SRK-2409D1		± 9	$\pm 27,8$	68
SRK-2412D1		± 12	$\pm 20,8$	70
SRK-2415D1		± 15	$\pm 16,7$	70
SRK-2424D1		± 24	$\pm 10,3$	69
SRK-4805S1	18-72	5	100	70
SRK-4809S1		9	55,7	72
SRK-4812S1		12	41,7	74
SRK-4815S1		15	33,3	74
SRK-4824S1		24	20,8	72
SRK-4805D1	18-72	± 5	± 50	68
SRK-4809D1		± 9	$\pm 27,8$	70
SRK-4812D1		± 12	$\pm 20,8$	72
SRK-4815D1		± 15	$\pm 16,7$	72
SRK-4824D1		± 24	$\pm 10,3$	71

MECHANICAL DIMENSIONS & PIN CONNECTIONS

PIN#	Single	Dual
2	-V Input	-V Input
3	-V Input	-V Input
9	N.P.	Common
11	N.C.	-V Output
14	+V Output	+V Output
16	-V Output	Common
22	+V Input	+V Input
23	+V Input	+V Input

