

DC/DC Converters – SM series

25 / 30 WATT
Single / Dual Output



FEATURES

- Wide 2:1 Input Range
- Full SMD Technology
- 1500 Vdc Isolation,
- Operating Temperature Range - 40°C ~ 85°C
- Continuous Short Circuit Protection
- Efficiency up to 91 %
- Over Temperature, Current and Voltage Protection
- Remote on/off control
- Soft Start

Model Number	Input Vdc	Output Vdc	Output Current (mA)	Efficiency @FL (%)	
SM-123R3S25	9-18	2.5	3000	81	
SM-1205S25		3.3	3000	84	
SM-1212S30		5	2000	86	
SM-1215S30		12	833	87	
SM-243R3S25		15	667	89	
SM-2405S25		±12	±416	87	
SM-2412S30		±15	±333	88	
SM-2415S30		2.5	3000	84	
SM-483R3S25		18-36	3.3	3000	85
SM-4805S25			5	2000	89
SM-4812S30	12		833	88	
SM-4815S30	15		667	88	
SM-1212D30	±12		±416	88	
SM-1215D30	±15		±333	90	
SM-2412D30	36-72		2.5	3000	84
SM-2415D30			3.3	3000	85
SM-4812D30			5	2000	88
SM-4815D30			12	833	87

Input specifications:	
Input Reflected Ripple Current	20mA pk-pk, typ
Filter:	Pi Type
Remote On/Off control:	ON: 2.5...5.5Vdc or open circuit OFF: -0.7...0.8Vdc or short circuit pins 2 and 3
Output specifications:	
Voltage accuracy	±1%
Ripple & noise (at 20MHz BW)	75mV pk-pk, max
Short Circuit Protection	Indefinite
Line regulation	±0.5%
Load regulation	±0.5% (10-100% load) ±0.7% (10-100% load) (±)3.3V models
Temperature coefficient	±0.02%/°C
Over Voltage protection: (Zener diode clamp)	3.3V out 3.9V 5V out 6.2V 12V out 15V 15V out 18V
General Specifications:	
Switching Frequency	330 kHz, typ
I/O isolation voltage (3 sec)	1500Vdc
Case I/O	1000Vdc
Safety standard	IEC/EN 60950-1
Safety Approvals	TUV, CB
Environmental specifications:	
Operating Temperature	-40°C ~ +85°C
Case temperature	100°C Max.
Storage Temperature	-40°C ~ +125°C
Cooling	Nature Convection
Humidity	95% rel H
EMC Characteristics	
Radiated Emissions	EN55022 CLASS A
Conducted Emissions	EN55022 CLASS A
ESD, EFT, Surge	EN61000-2,4,5 Perf. Criteria B
RS, CS, PFMF	EN61000-3,6,8 Perf. Criteria A

MECHANICAL DIMENSIONS & PIN CONNECTIONS

