

# DC/DC Converters – S7- S/D7 series

7.5 WATT (available also 10 W series)  
Single / Dual Output

## FEATURES

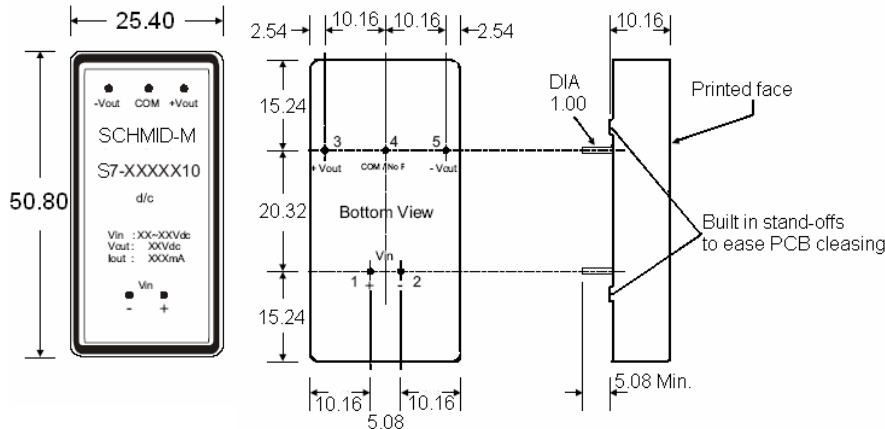
- 1500 Vdc Isolation
- Wide 2:1 Input Range
- 2" X 1" X 0.4" Package
- Regulated
- Continuous Short Circuit protection
- Nickel-Coated Copper Metal
- High Efficiency up to 90%
- EMI Complies With EN55022 Class A



<b>Input specifications:</b>		
Input Reflected Ripple Current Filter:		35mA pk-pk Capacitors
<b>Output specifications:</b>		
Voltage accuracy		±1%
Ripple & noise (at 20MHz BW)		100mV pk-pk
Line regulation		±0.5%
Load regulation		±0.5%, load=10~100%
Temperature coefficient		±0.02%/°C
<b>General Specifications:</b>		
Switching Frequency		200 kHz, Typ
I/O isolation voltage (3 sec)		1000~3000Vdc
Safety standard		IEC 60950-1:2001
<b>EMC characteristics</b>		
Radiated Emissions	EN55022	CLASS A
	FCC 47 CFR Part 15 Subp.B	CLASS A
ESD	IEC61000-4-2	Perf. Criteria B
RS	IEC61000-4-3	Perf. Criteria A
<b>Environmental specifications:</b>		
Operating Temperature		-40°C ~ +85°C
Case temperature		100°C Max.
Storage Temperature		-40°C ~ +125°C
Cooling		Nature Convection

Model Number	Input Vdc	Output Vdc	Output Current (mA)	Efficiency @FL (%)
S7-123R3S7	9-18	3.3	1500	80
S7-1205S7		5	1500	81
S7-127R2S7		7.2	1041	82
S7-1209S7		9	833	82
S7-1212S7		12	625	83
S7-1215S7		15	500	83
S7-1218S7		18	416	84
S7-1224S7	24	312	85	
S7-123R3D7	9-18	±3.3	±750	80
S7-2405D7		±5	±750	81
S7-127R2D7		±7.2	±520	82
S7-1209D7		±9	±416	82
S7-1212D7		±12	±312	82
S7-1215D7		±15	±250	83
S7-1218D7		±18	±208	83
S7-1224D7	±24	±156	84	
S7-243R3S7	18-36	3.3	1500	81
S7-2405S7		5	1500	82
S7-247R2S7		7.2	1041	83
S7-2409S7		9	833	84
S7-2412S7		12	625	84
S7-2415S7		15	500	85
S7-2418S7		18	416	86
S7-2424S7	24	312	86	
S7-243R3D7	18-36	±3.3	±750	81
S7-2405D7		±5	±750	82
S7-247R2D7		±7.2	±520	83
S7-2409D7		±9	±416	83
S7-2412D7		±12	±312	84
S7-2415D7		±15	±250	84
S7-2418D7		±18	±208	85
S7-2424D7	±24	±156	85	
S7-483R3S7	36-72	3.3	1500	80
S7-4805S7		5	1500	81
S7-487R2S7		7.2	1041	82
S7-4809S7		9	833	82
S7-4812S7		12	625	83
S7-4815S7		15	500	83
S7-4818S7		18	416	84
S7-4824S7	24	312	84	
S7-483R3D7	36-72	±3.3	±750	80
S7-4805D7		±5	±750	81
S7-487R2D7		±7.2	±520	82
S7-4809D7		±9	±416	82
S7-4812D7		±12	±312	83
S7-4815D7		±15	±250	84
S7-4818D7		±18	±208	84
S7-4824D7	±24	±156	85	

## MECHANICAL DIMENSIONS & PIN CONNECTIONS



PIN#	Single	Dual
1	+V Input	+V Input
2	-V Input	-V Input
3	+V Output	+V Output
4	N.P.	Common
5	-V Output	-V Output

# DC/DC Converters – S7- S/D12 series

12 WATT  
(available also 10, 12, 15, 20, 25 and 30W series)  
Single / Dual Output

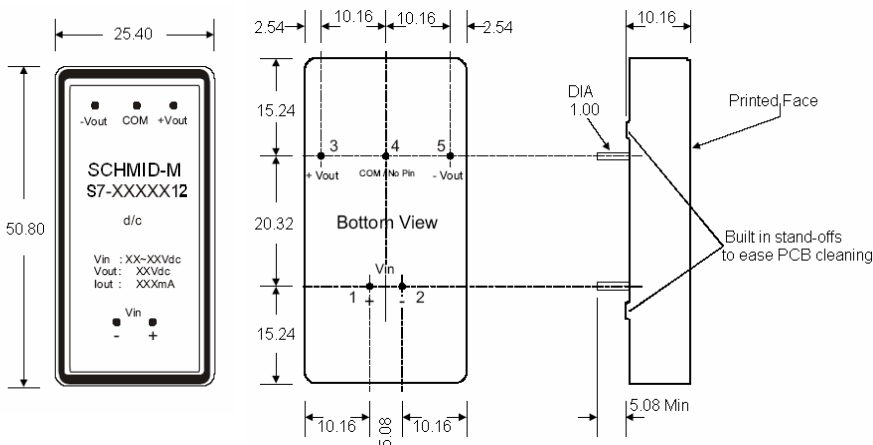
## FEATURES

- 1500 Vdc Isolation
- Wide 2:1 Input Range
- 2" X 1" X 0.4" Package
- Regulated
- Continuous Short Circuit protection
- Nickel-Coated Copper Metal
- High Efficiency up to 90%

<b>Input specifications:</b>		
Input Reflected Ripple Current Filter:		35mA pk-pk Capacitors
<b>Output specifications:</b>		
Voltage accuracy		±1%
Ripple & noise (at 20MHz BW)		100mV pk-pk
Line regulation		±0.5%
Load regulation		±0.5%, load=10~100%
Temperature coefficient		±0.02%/°C
<b>General Specifications:</b>		
Switching Frequency		200 kHz, Typ
I/O isolation voltage (3 sec)		1000~3000Vdc
Safety standard		IEC 60950-1:2001
<b>EMC characteristics</b>		
Radiated Emissions	EN55022	CLASS A
	FCC 47 CFR Part 15 Subp.B	CLASS A
ESD	IEC61000-4-2	Perf. Criteria B
RS	IEC61000-4-3	Perf. Criteria A
<b>Environmental specifications:</b>		
Operating Temperature		-40°C ~ +85°C
Case temperature		100°C Max.
Storage Temperature		-40°C ~ +125°C
Cooling		Nature Convection

Model Number	Input Vdc	Output Vdc	Output Current (mA)	Efficiency @FL (%)
S7-123R3S12	9-18	3.3	2400	79
S7-1205S12		5	2400	82
S7-127R2S12		7.2	1666	83
S7-1209S12		9	1333	83
S7-1212S12		12	1000	84
S7-1215S12		15	800	84
S7-1218S12		18	666	85
S7-1224S12		24	500	85
S7-123R3D12	9-18	±3.3	±1200	79
S7-1205D12		±5	±1200	82
S7-127R2D12		±7.2	±833	83
S7-1209D12		±9	±666	84
S7-1212D12		±12	±500	84
S7-1215D12		±15	±400	85
S7-1218D12		±18	±333	85
S7-1224D12		±24	±250	85
S7-243R3S12	18-36	3.3	2400	79
S7-2405S12		5	2400	82
S7-247R2S12		7.2	1666	83
S7-2409S12		9	1333	84
S7-2412S12		12	1000	84
S7-2415S12		15	800	85
S7-2418S12		18	666	85
S7-2424S12		24	500	86
S7-243R3D12	18-36	±3.3	±1200	79
S7-2405D12		±5	±1200	82
S7-247R2D12		±7.2	±833	83
S7-2409D12		±9	±666	83
S7-2412D12		±12	±500	84
S7-2415D12		±15	±400	84
S7-2418D12		±18	±333	85
S7-2424D12		±24	±250	85
S7-483R3S12	36-72	3.3	2400	79
S7-4805S12		5	2400	83
S7-487R2S12		7.2	1666	83
S7-4809S12		9	1333	84
S7-4812S12		12	1000	84
S7-4815S12		15	800	84
S7-4818S12		18	666	85
S7-4824S12		24	500	86
S7-483R3D12	36-72	±3.3	±1200	79
S7-4805D12		±5	±1200	82
S7-487R2D12		±7.2	±833	84
S7-4809D12		±9	±666	84
S7-4812D12		±12	±500	85
S7-4815D12		±15	±400	85
S7-4818D12		±18	±333	86
S7-4824D12		±24	±250	86

## MECHANICAL DIMENSIONS & PIN CONNECTIONS



PIN#	Single	Dual
1	+V Input	+V Input
2	-V Input	-V Input
3	+V Output	+V Output
4	N.P.	Common
5	-V Output	-V Output

# DC/DC Converters – S7W-10 series

10 WATT (available also 12 WATT series)  
Single / Dual Output

## FEATURES

- Wide 4:1 Input Range
- 1500 VDC Isolation
- Full SMD Technology
- Continuous Short Circuit Protection
- Efficiency up to 85 %
- Operating Temperature Range - 40°C ~ 85°C
- Remote on/off Control (Optional)
- EMI Complies With EN55022 Class A

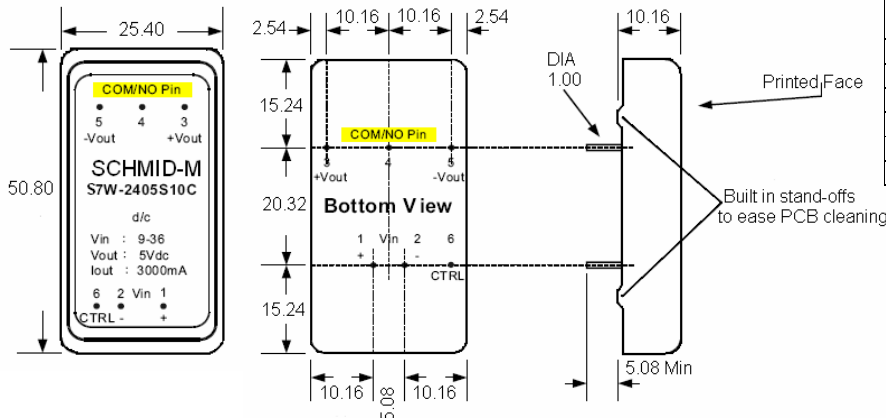


Model Number	Input Voltage Range (V)	Output Vdc	Output Current (mA)	Eff. @FL (%)	
S7W-243R3S10	9-36	3.3	2000	80	
S7W-2405S10		5	2000	82	
S7W-247R2S10		7.2	1388	83	
S7W-2409S10		9	1111	83	
S7W-2412S10		12	833	85	
S7W-2415S10		15	666	85	
S7W-2405D10		±5	1000	82	
S7W-247R2D10		±7.2	±694	83	
S7W-2409D10		±9	±555	83	
S7W-2412D10		±12	±416	85	
S7W-2415D10		±15	±333	85	
S7W-483R3S10		18-72	3.3	2000	79
S7W-4805S10			5	2000	82
S7W-487R2S10			7.2	1388	83
S7W-4809S10	9		1111	83	
S7W-4812S10	12		833	85	
S7W-4815S10	15		666	85	
S7W-4805D10	±5		±1000	82	
S7W-487R2D10	±7.2		±694	83	
S7W-4809D10	±9		±555	83	
S7W-4812D10	±12		±416	85	
S7W-4815D10	±15		±333	85	

<b>Input specifications:</b>	
Input Reflected Ripple Current	35mA pk-pk
Filter:	Pi Type
<b>Output specifications:</b>	
Voltage accuracy	±1%
Ripple & noise (at 20MHz BW)	75mV pk-pk
Line regulation	±0.5%
Load regulation	±0.5% ,load=10~100%
	±0.5% ,load below 10%
Temperature coefficient	±0.02%/°C
<b>General Specifications:</b>	
Switching Frequency	300 kHz, Typ
I/O isolation voltage (3 sec)	1500Vdc
Safety standard	IEC 60950-1:2001
<b>EMC characteristics</b>	
Radiated Emissions	EN55022 CLASS A
ESD	IEC61000-4-2 Perf. Criteria B
RS	IEC61000-4-3 Perf. Criteria A
<b>Environmental specifications:</b>	
Operating Temperature	-40°C ~ +85°C
Case temperature	100°C Max.
Storage Temperature	-40°C ~ +125°C
Cooling	Nature Convection

Suffix „C“ means with Control Pin

## MECHANICAL DIMENSIONS & PIN CONNECTIONS



PIN #	Standard		Remote ctrl.(opt.)	
	Single	Dual	Single	Dual
1	+Vin	+Vin	+Vin	+Vin
2	-Vin	-Vin	-Vin	-Vin
3	+Vout	+Vout	+Vout	+Vout
4	N.P.	Common	N.P.	Common
5	-Vout	-Vout	-Vout	-Vout
6	N.P.	N.P.	CTRL	CTRL

# DC/DC Converters – S7W-15 series

15 WATT

Single / Dual Output

## FEATURES

- Wide 4:1 Input Range
- 1500 VDC Isolation
- Full SMD Technology
- Continuous Short Circuit Protection
- Efficiency up to 86 %
- Operating Temperature Range - 40°C ~ 85°C
- Remote on/off Control (Optional)
- EMI Complies With EN55022 Class A

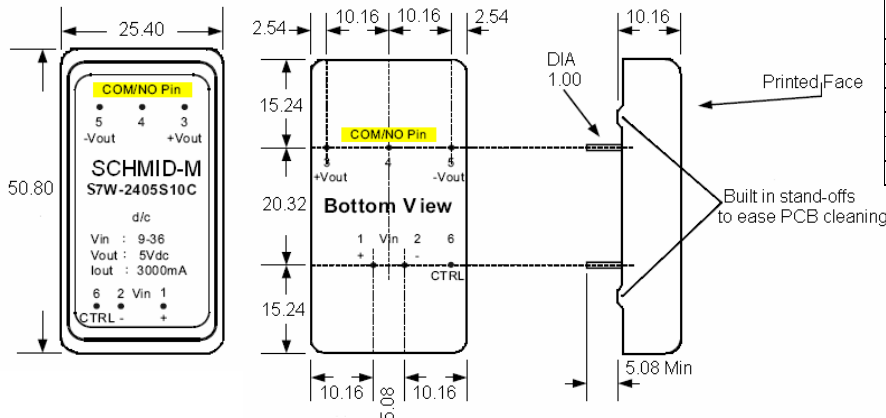


Model Number	Input Voltage Range (V)	Output Vdc	Output Current (mA)	Eff. @FL (%)
S7W-243R3S15	9-36	3.3	3000	80
S7W-2405S15		5	3000	83
S7W-247R2S15		7.2	2083	84
S7W-2409S15		9	1666	84
S7W-2412S15		12	1250	85
S7W-2415S15		15	1000	86
S7W-2405D15		±5	±1500	83
S7W-247R2D15		±7.2	±1041	84
S7W-2409D15		±9	±833	84
S7W-2412D15		±12	±625	85
S7W-2415D15	±15	±500	86	
S7W-483R3S15	18-72	3.3	3000	80
S7W-4805S15		5	3000	83
S7W-487R2S15		7.2	2083	84
S7W-4809S15		9	1666	84
S7W-4812S15		12	1250	85
S7W-4815S15		15	1000	86
S7W-4805D15		±5	±1500	83
S7W-487R2D15		±7.2	±1041	84
S7W-4809D15		±9	±833	84
S7W-4812D15		±12	±625	85
S7W-4815D15	±15	±500	86	

<b>Input specifications:</b>	
Input Reflected Ripple Current	35mA pk-pk
Filter:	Pi Type
<b>Output specifications:</b>	
Voltage accuracy	±1%
Ripple & noise (at 20MHz BW)	75mV pk-pk
Line regulation	±0.5%
Load regulation	±0.5%, load=10~100%
	±0.5%, load below 10%
Temperature coefficient	±0.02%/°C
<b>General Specifications:</b>	
Switching Frequency	300 kHz, Typ
I/O isolation voltage (3 sec)	1500Vdc
Safety standard	IEC 60950-1:2001
<b>EMC characteristics</b>	
Radiated Emissions	EN55022 CLASS A
ESD	IEC61000-4-2 Perf. Criteria B
RS	IEC61000-4-3 Perf. Criteria A
<b>Environmental specifications:</b>	
Operating Temperature	-40°C ~ +85°C
Case temperature	100°C Max.
Storage Temperature	-40°C ~ +125°C
Cooling	Nature Convection

Suffix „C“ means with Control Pin

## MECHANICAL DIMENSIONS & PIN CONNECTIONS



PIN #	Standard		Remote ctrl.(opt.)	
	Single	Dual	Single	Dual
1	+Vin	+Vin	+Vin	+Vin
2	-Vin	-Vin	-Vin	-Vin
3	+Vout	+Vout	+Vout	+Vout
4	N.P.	Common	N.P.	Common
5	-Vout	-Vout	-Vout	-Vout
6	N.P.	N.P.	CTRL	CTRL

# DC/DC Converters – S7- S/D15 series

15 WATT  
Single / Dual Output

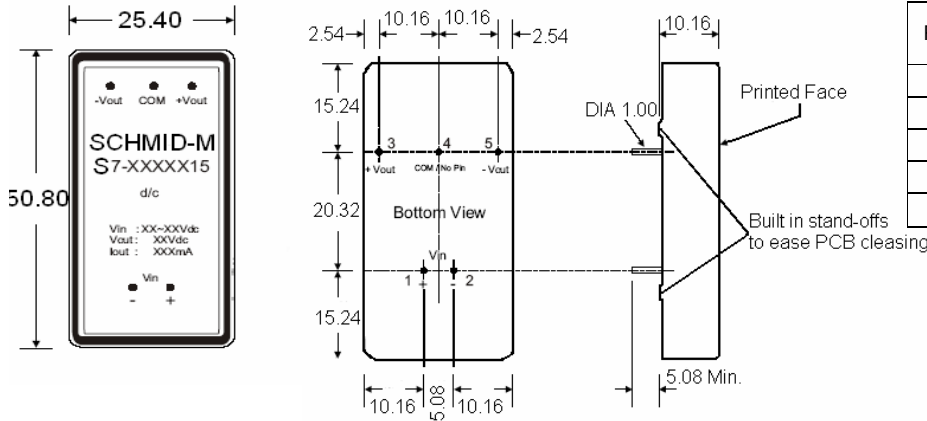
## FEATURES

- 1500 Vdc Isolation
- Wide 2:1 Input Range
- 2" X 1" X 0.4" Package
- Regulated
- Continuous Short Circuit protection
- Nickel-Coated Copper Metal
- High Efficiency up to 90%

<b>Input specifications:</b>	
Voltage Range	12Vdc, 9-18Vdc, 24Vdc, 18-36Vdc, 48Vdc, 36-72Vdc
Filter	Capacitors
<b>Isolation specification:</b>	
Rated Voltage	1500 Vdc, Standard
Resistance	1000M $\Omega$ Min.
Capacitance	500 pF, Typ.
<b>Output specifications:</b>	
Voltage accuracy	$\pm 1\%$ , Max
Voltage Balance	$\pm 1\%$
Ripple & noise (at 20MHz BW)	100 mVp-p, Max
Short Circuit Protection	Continuous
Short Circuit Restart	Automatic
Line regulation	$\pm 0.5\%$ Max.
Load regulation	$\pm 0.5\%$ Max.
Temperature coefficient	$\pm 0.02\%/^{\circ}\text{C}$
<b>General Specifications:</b>	
Efficiency	80% ~ 90%
Switching Frequency	200 kHz, Typ.
<b>Enviromental specifications:</b>	
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	Up to 90%, Non-condensing

Model Number	Input Vdc	Output Vdc	Output Current (mA)	Efficiency @FL (%)
S7-123R3S15	9-18	3.3	3000	80
S7-1205S15		5	3000	82
S7-127R2S15		7.2	2083	83
S7-1209S15		9	1666	85
S7-1212S15		12	1250	85
S7-1215S15		15	1000	85
S7-1218S15		18	833	85
S7-1224S15	24	625	86	
S7-123R3D15	9-18	$\pm 3.3$	$\pm 1500$	80
S7-1205D15		$\pm 5$	$\pm 1500$	82
S7-127R2D15		$\pm 7.2$	$\pm 1041$	83
S7-1209D15		$\pm 9$	$\pm 833$	84
S7-1212D15		$\pm 12$	$\pm 625$	84
S7-1215D15		$\pm 15$	$\pm 500$	84
S7-1218D15		$\pm 18$	$\pm 416$	85
S7-1224D15	$\pm 24$	$\pm 312$	85	
S7-243R3S15	18-36	3.3	3000	80
S7-2405S15		5	3000	84
S7-247R2S15		7.2	2083	84
S7-2409S15		9	1666	85
S7-2412S15		12	1250	85
S7-2415S15		15	1000	86
S7-2418S15		18	833	86
S7-2424S15	24	625	87	
S7-243R3D15	18-36	$\pm 3.3$	$\pm 1500$	80
S7-2405D15		$\pm 5$	$\pm 1500$	83
S7-247R2D15		$\pm 7.2$	$\pm 1041$	84
S7-2409D15		$\pm 9$	$\pm 833$	85
S7-2412D15		$\pm 12$	$\pm 625$	86
S7-2415D15		$\pm 15$	$\pm 500$	86
S7-2418D15		$\pm 18$	$\pm 416$	87
S7-2424D15	$\pm 24$	$\pm 312$	87	
S7-483R3S15	36-72	3.3	3000	80
S7-4805S15		5	3000	84
S7-487R2S15		7.2	2083	84
S7-4809S15		9	1666	85
S7-4812S15		12	1250	86
S7-4815S15		15	1000	87
S7-4818S15		18	833	87
S7-4824S15	24	625	87	
S7-483R3D15	36-72	$\pm 3.3$	$\pm 1500$	80
S7-4805D15		$\pm 5$	$\pm 1500$	84
S7-487R2D15		$\pm 7.2$	$\pm 1041$	84
S7-4809D15		$\pm 9$	$\pm 833$	85
S7-4812D15		$\pm 12$	$\pm 625$	86
S7-4815D15		$\pm 15$	$\pm 500$	87
S7-4818D15		$\pm 18$	$\pm 416$	87
S7-4824D15	$\pm 24$	$\pm 312$	87	

## MECHANICAL DIMENSIONS & PIN CONNECTIONS



PIN#	Single	Dual
1	+V Input	+V Input
2	-V Input	-V Input
3	+V Output	+V Output
4	N.P.	Common
5	-V Output	-V Output

# DC/DC Converters – S7- S/D20L series

20 WATT  
Single / Dual Output

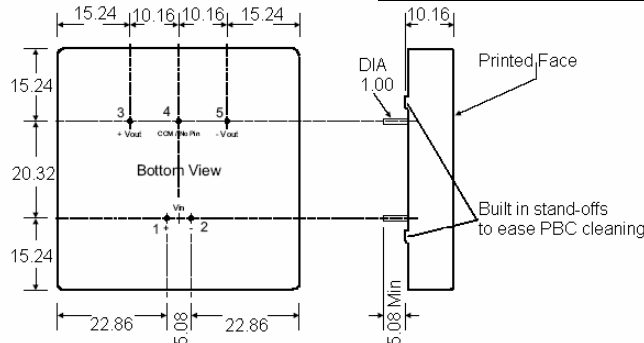
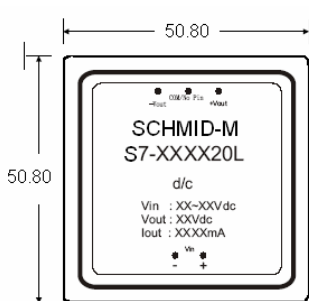
## FEATURES

- 1500 Vdc Isolation
- Wide 2:1 Input Range
- 2" X 2" X 0.4" Package
- Regulated
- Continuous Short Circuit protection
- Nickel-Coated Copper Metal
- High Efficiency up to 92%

<b>Input specifications:</b>	
Voltage Range	12Vdc, 9-18Vdc, 24Vdc, 18-36Vdc, 48Vdc, 36-72Vdc
Filter	Capacitors
<b>Isolation specification:</b>	
Rated Voltage	1500 Vdc, Standard
Resistance	1000M $\Omega$ Min.
Capacitance	500 pF, Typ.
<b>Output specifications:</b>	
Voltage accuracy	$\pm 1\%$ , Max
Voltage Balance	$\pm 1\%$
Ripple & noise (at 20MHz BW)	( $\pm$ )100 mVp-p, Max
Short Circuit Protection	Continuous
Short Circuit Restart	Automatic
Line regulation	$\pm 0.5\%$ Max.
Load regulation	$\pm 0.5\%$ Max.
Temperature coefficient	$\pm 0.02\%/^{\circ}\text{C}$
<b>General Specifications:</b>	
Efficiency	84% ~ 92%
Switching Frequency	200 kHz, Typ.
<b>Environmental specifications:</b>	
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	Up to 90%, Non-condensing

Model Number	Input Vdc	Output Vdc	Output Current (mA)	Efficiency @FL (%)
S7-123R3S20L	9-18	3.3	4000	80
S7-1205S20L		5	4000	83
S7-127R2S20L		7.2	2777	84
S7-1209S20L		9	2222	84
S7-1212S20L		12	1666	85
S7-1215S20L		15	1333	85
S7-1218S20L		18	1111	85
S7-1224S20L		24	833	85
S7-123R3D20L	9-18	$\pm 3.3$	$\pm 2000$	78
S7-1205D20L		$\pm 5$	$\pm 2000$	82
S7-127R2D20L		$\pm 7.2$	$\pm 1388$	83
S7-1209D20L		$\pm 9$	$\pm 1111$	85
S7-1212D20L		$\pm 12$	$\pm 833$	84
S7-1215D20L		$\pm 15$	$\pm 666$	86
S7-1218D20L		$\pm 18$	$\pm 555$	85
S7-1224D20L		$\pm 24$	$\pm 416$	85
S7-243R3S20L	18-36	3.3	4000	79
S7-2405S20L		5	4000	84
S7-247R2S20L		7.2	2777	84
S7-2409S20L		9	2222	86
S7-2412S20L		12	1666	87
S7-2415S20L		15	1333	87
S7-2418S20L		18	1111	85
S7-2424S20L		24	833	87
S7-243R3D20L	18-36	$\pm 3.3$	$\pm 2000$	79
S7-2405D20L		$\pm 5$	$\pm 2000$	84
S7-247R2D20L		$\pm 7.2$	$\pm 1388$	84
S7-2409D20L		$\pm 9$	$\pm 1111$	87
S7-2412D20L		$\pm 12$	$\pm 833$	86
S7-2415D20L		$\pm 15$	$\pm 666$	87
S7-2418D20L		$\pm 18$	$\pm 555$	88
S7-2424D20L		$\pm 24$	$\pm 416$	86
S7-483R3S20L	36-72	3.3	4000	79
S7-4805S20L		5	4000	83
S7-487R2S20L		7.2	2777	85
S7-4809S20L		9	2222	87
S7-4812S20L		12	1666	87
S7-4815S20L		15	1333	86
S7-4818S20L		18	1111	86
S7-4824S20L		24	833	87
S7-483R3D20L	36-72	$\pm 3.3$	$\pm 2000$	80
S7-4805D20L		$\pm 5$	$\pm 2000$	83
S7-487R2D20L		$\pm 7.2$	$\pm 1388$	85
S7-4809D20L		$\pm 9$	$\pm 1111$	87
S7-4812D20L		$\pm 12$	$\pm 833$	87
S7-4815D20L		$\pm 15$	$\pm 666$	87
S7-4818D20L		$\pm 18$	$\pm 555$	86
S7-4824D20L		$\pm 24$	$\pm 416$	87

## MECHANICAL DIMENSIONS & PIN CONNECTIONS



PIN#	Single	Dual
1	+V Input	+V Input
2	-V Input	-V Input
3	+V Output	+V Output
4	N.P.	Common
5	-V Output	-V Output

# DC/DC Converters – S7- S/D25L series

25 WATT  
Single / Dual Output

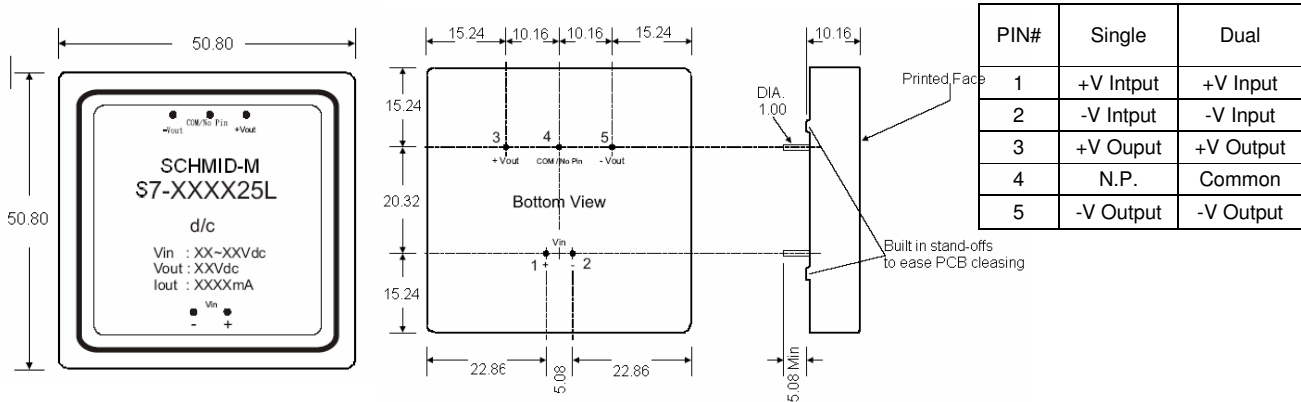
## FEATURES

- 1500 Vdc Isolation
- Wide 2:1 Input Range
- 2" X 2" X 0.4" Package
- Regulated
- Continuous Short Circuit protection
- Nickel-Coated Copper Metal
- High Efficiency up to 92%

<b>Input specifications:</b>	
Voltage Range	12Vdc, 9-18Vdc, 24Vdc, 18-36Vdc, 48Vdc, 36-72Vdc
Filter	Capacitors
<b>Isolation specification:</b>	
Rated Voltage	1500 Vdc, Standard
Resistance	1000M Ω Min.
Capacitance	500 pF, Typ.
<b>Output specifications:</b>	
Voltage accuracy	±1%, Max
Voltage Balance	±1%
Ripple & noise (at 20MHz BW)	(±)100 mVp-p, Max
Short Circuit Protection	Continuous
Short Circuit Restart	Automatic
Line regulation	±0.5% Max.
Load regulation	±0.5% Max.
Temperature coefficient	±0.02%/°C
<b>General Specifications:</b>	
Efficiency	84% ~ 92%
Switching Frequency	200 kHz, Typ.
<b>Enviromental specifications:</b>	
Operating Temperature	-40°C ~ +85°C
Case temperature	100°C Max.
Storage Temperature	-40°C ~ +125°C
Derating	None required
Humidity	Up to 90%, Non-condensing

Model Number	Input Vdc	Output Vdc	Output Current (mA)	Efficiency @FL (%)	
S7-1205S25L	9-18	5	5000	83	
S7-127R2S25L		7.2	3472	84	
S7-1209S25L		9	2777	84	
S7-1212S25L		12	2083	84	
S7-1215S25L		15	1666	85	
S7-1218S25L		18	1388	85	
S7-1224S25L	9-18	24	1041	85	
S7-123R3D25L		±3.3	±2500	80	
S7-1205D25L		±5	±2500	82	
S7-127R2D25L		±7.2	±1736	83	
S7-1209D25L		±9	±1388	84	
S7-1212D25L		±12	±1041	84	
S7-1215D25L	9-18	±15	±833	85	
S7-1218D25L		±18	±694	85	
S7-1224D25L		±24	±520	85	
S7-243R3S25L		18-36	3.3	5000	82
S7-2405S25L			5	5000	85
S7-247R2S25L			7.2	3472	84
S7-2409S25L	9		2777	84	
S7-2412S25L	12		2083	85	
S7-2415S25L	15		1666	85	
S7-2418S25L	18-36	18	1388	85	
S7-2424S25L		24	1041	86	
S7-243R3D25L		±3.3	±2500	81	
S7-2405D25L		±5	±2500	84	
S7-247R2D25L		±7.2	±1736	84	
S7-2409D25L		±9	±1388	84	
S7-2412D25L	18-36	±12	±1041	85	
S7-2415D25L		±15	±833	86	
S7-2418D25L		±18	±694	86	
S7-2424D25L		±24	±520	87	
S7-483R3S25L		36-72	3.3	5000	79
S7-4805S25L			5	5000	83
S7-487R2S25L	7.2		3472	84	
S7-4809S25L	9		2777	84	
S7-4812S25L	12		2083	85	
S7-4815S25L	15		1666	86	
S7-4818S25L	36-72	18	1388	86	
S7-4824S25L		24	1041	88	
S7-483R3D25L		±3.3	±2500	80	
S7-4805D25L		±5	±2500	82	
S7-487R2D25L		±7.2	±1736	82	
S7-4809D25L		±9	±1388	84	
S7-4812D25L	36-72	±12	±1041	85	
S7-4815D25L		±15	±833	88	
S7-4818D25L		±18	±694	87	
S7-4824D25L		±24	±520	85	

## MECHANICAL DIMENSIONS & PIN CONNECTIONS





# DC/DC Converters – S7- S/D30L

30 WATT  
Single / Dual Output

## FEATURES

- 1500 Vdc Isolation
- Wide 2:1 Input Range
- 2" X 2" X 0.4" Package
- Regulated
- Continuous Short Circuit protection
- Nickel-Coated Copper Metal
- High Efficiency up to 92%

<b>Input specifications:</b>	
Voltage Range	12Vdc, 9-18Vdc, 24Vdc, 18-36Vdc, 48Vdc, 36-72Vdc
Filter	Capacitors
<b>Isolation specification:</b>	
Rated Voltage	1500 Vdc, Standard
Resistance	1000M $\Omega$ Min.
Capacitance	500 pF, Typ.
<b>Output specifications:</b>	
Voltage accuracy	$\pm 1\%$ , Max
Voltage Balance	$\pm 1\%$
Ripple & noise (at 20MHz BW)	( $\pm$ )100 mVp-p, Max
Short Circuit Protection	Continuous
Short Circuit Restart	Automatic
Line regulation	$\pm 0.5\%$ Max.
Load regulation	$\pm 0.5\%$ Max.
Temperature coefficient	$\pm 0.02\%/^{\circ}\text{C}$
<b>General Specifications:</b>	
Efficiency	84% ~ 92%
Switching Frequency	200 kHz, Typ.
<b>Environmental specifications:</b>	
Operating Temperature	-40 $^{\circ}\text{C}$ ~ +85 $^{\circ}\text{C}$
Case temperature	100 $^{\circ}\text{C}$ Max.
Storage Temperature	-40 $^{\circ}\text{C}$ ~ +125 $^{\circ}\text{C}$
Derating	None required
Humidity	Up to 90%, Non-condensing

Model Number	Input Vdc	Output Vdc	Output Current (mA)	Efficiency @FL (%)	
S7-1205S30L	9-18	5	6000	83	
S7-127R2S30L		7.2	4166	83	
S7-1209S30L		9	3333	84	
S7-1212S30L		12	2500	84	
S7-1215S30L		15	2000	86	
S7-1218S30L		18	1388	85	
S7-1224S30L	24	1250	85		
S7-123R3D30L	9-18	$\pm 3.3$	$\pm 3000$	78	
S7-1205D30L		$\pm 5$	$\pm 3000$	82	
S7-127R2D30L		$\pm 7.2$	$\pm 2083$	83	
S7-1209D30L		$\pm 9$	$\pm 1666$	83	
S7-1212D30L		$\pm 12$	$\pm 1250$	84	
S7-1215D30L		$\pm 15$	$\pm 1000$	85	
S7-1218D30L		$\pm 18$	$\pm 833$	85	
S7-1224D30L		$\pm 24$	$\pm 625$	85	
S7-243R3S30L		18-36	3.3	6000	80
S7-2405S30L			5	6000	85
S7-247R2S30L	7.2		4166	84	
S7-2409S30L	9		3333	87	
S7-2412S30L	12		2500	87	
S7-2415S30L	15		2000	87	
S7-2418S30L	18		1388	86	
S7-2424S30L	24		1250	86	
S7-243R3D30L	$\pm 3.3$		$\pm 3000$	78	
S7-2405D30L	$\pm 5$		$\pm 3000$	84	
S7-247R2D30L	$\pm 7.2$	$\pm 2083$	86		
S7-2409D30L	18-36	$\pm 9$	$\pm 1666$	85	
S7-2412D30L		$\pm 12$	$\pm 1250$	85	
S7-2415D30L		$\pm 15$	$\pm 1000$	87	
S7-2418D30L		$\pm 18$	$\pm 833$	88	
S7-2424D30L		$\pm 24$	$\pm 625$	87	
S7-483R3S30L		36-72	3.3	6000	79
S7-4805S30L			5	6000	83
S7-487R2S30L			7.2	4166	84
S7-4809S30L			9	3333	84
S7-4812S30L			12	2500	86
S7-4815S30L	15		2000	88	
S7-4818S30L	18		1388	86	
S7-4824S30L	24		1250	88	
S7-483R3D30L	$\pm 3.3$		$\pm 3000$	80	
S7-4805D30L	$\pm 5$		$\pm 3000$	82	
S7-487R2D30L	$\pm 7.2$	$\pm 2083$	82		
S7-4809D30L	36-72	$\pm 9$	$\pm 1666$	85	
S7-4812D30L		$\pm 12$	$\pm 1250$	87	
S7-4815D30L		$\pm 15$	$\pm 1000$	88	
S7-4818D30L		$\pm 18$	$\pm 833$	86	
S7-4824D30L		$\pm 24$	$\pm 625$	86	

## MECHANICAL DIMENSIONS & PIN CONNECTIONS

