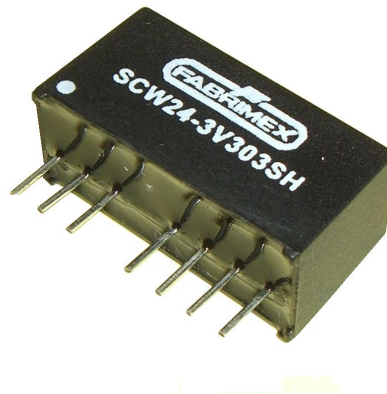


Reg. Nr. 12666

DC/DC Wide Input Converter SCW 03 Series



- 3W Isolated Output
- Regulated Outputs
- Continuous Short Circuit Protection
- Compact SIP-8 Package
- Remote On/Off Control
- 2:1 Input Range
- Efficiency to 86%
- 1500VDC Isolation

- 3W Isolated Output
- Regulated Outputs
- Continuous Short Circuit Protection
- Compact SIP-8 Package
- Remote On/Off Control
- 2:1 Input Range
- Efficiency to 86%
- 1500VDC Isolation

- 3W Isolated Output
- Regulated Outputs
- Continuous Short Circuit Protection
- Compact SIP-8 Package
- Remote On/Off Control
- 2:1 Input Range
- Efficiency to 86%
- 1500VDC Isolation

Product Range

Typenübersicht

Sommaire des types

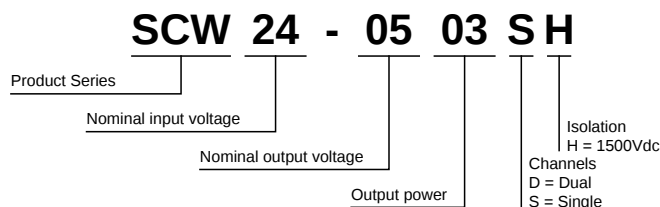
Model	Input nominal	Input range	Input current @ Uin nom. full load	no load	Uout	Output Iout max.	power	Efficiency typ.
Single								
SCW05-3V303SH	5VDC	4.5...9VDC	632mA	60mA	3.3VDC	700mA	2.3W	73%
SCW05-0503SH	5VDC	4.5...9VDC	769mA	60mA	5.0VDC	600mA	3W	78%
SCW05-1203SH	5VDC	4.5...9VDC	759mA	60mA	12VDC	250mA	3W	81%
SCW05-1503SH	5VDC	4.5...9VDC	741mA	60mA	15VDC	200mA	3W	81%
SCW12-3V303SH	12VDC	9...18VDC	253mA	30mA	3.3VDC	700mA	2.3W	76%

SCW12-0503SH	12VDC	9...18VDC	309mA	30mA	5.0VDC	600mA	3W	81%
SCW12-1203SH	12VDC	9...18VDC	301mA	30mA	12VDC	250mA	3W	83%
SCW12-1503SH	12VDC	9...18VDC	298mA	30mA	15VDC	200mA	3W	84%
SCW24-3V303SH	24VDC	18...36VDC	125mA	18mA	3.3VDC	700mA	2.3W	77%
SCW24-0503SH	24VDC	18...36VDC	154mA	18mA	5.0VDC	600mA	3W	81%
SCW24-1203SH	24VDC	18...36VDC	149mA	18mA	12VDC	250mA	3W	84%
SCW24-1503SH	24VDC	18...36VDC	147mA	18mA	15VDC	200mA	3W	85%
SCW48-3V303SH	48VDC	36...72VDC	63mA	9mA	3.3VDC	700mA	2.3W	77%
SCW48-0503SH	48VDC	36...72VDC	77mA	9mA	5.0VDC	600mA	3W	81%
SCW48-1203SH	48VDC	36...72VDC	73mA	9mA	12VDC	250mA	3W	86%
SCW48-1503SH	48VDC	36...72VDC	73mA	9mA	15VDC	200mA	3W	86%
Dual								
SCW05-0503DH	5VDC	4.5...9VDC	769mA	60mA	+5.0VDC -5.0VDC	+300mA -300mA	1.5W 1.5W	78%
SCW05-1203DH	5VDC	4.5...9VDC	741mA	60mA	+12VDC -12VDC	+125mA -125mA	1.5W 1.5W	81%
SCW05-1503DH	5VDC	4.5...9VDC	741mA	60mA	+15VDC -15VDC	+100mA -100mA	1.5W 1.5W	81%
SCW12-0503DH	12VDC	9...18VDC	305mA	30mA	+5.0VDC -5.0VDC	+300mA -300mA	1.5W 1.5W	82%
SCW12-1203DH	12VDC	9...18VDC	301mA	30mA	+12VDC -12VDC	+125mA -125mA	1.5W 1.5W	83%
SCW12-1503DH	12VDC	9...18VDC	298mA	30mA	+15VDC -15VDC	+100mA -100mA	1.5W 1.5W	84%
SCW24-0503DH	24VDC	18...36VDC	156mA	18mA	+5.0VDC -5.0VDC	+300mA -300mA	1.5W 1.5W	80%
SCW24-1203DH	24VDC	18...36VDC	149mA	18mA	+12VDC -12VDC	+125mA -125mA	1.5W 1.5W	84%
SCW24-1503DH	24VDC	18...36VDC	147mA	18mA	+15VDC -15VDC	+100mA -100mA	1.5W 1.5W	85%
SCW48-0503DH	48VDC	36...72VDC	77mA	9mA	+5.0VDC -5.0VDC	+300mA -300mA	1.5W 1.5W	81%
SCW48-1203DH	48VDC	36...72VDC	73mA	9mA	+12VDC -12VDC	+125mA -125mA	1.5W 1.5W	86%
SCW48-1503DH	48VDC	36...72VDC	73mA	9mA	+15VDC -15VDC	+100mA -100mA	1.5W 1.5W	86%

Nomenclature

Nomenklatur

Nomenclature



All values refer to an ambient temperature of 25°C and nominal rated values where nothing else is specified.

Input Specifications

Characteristic		Conditions	min	typ	max	unit
U _{IN}	Input voltage		See	product	range	V
U _{UVLO}	Under voltage lockout					V
	Max. input current at full load		See	product	range	A
	No load input current		See	product	range	mA

Output Specifications

Characteristic		Conditions	min	typ	max	unit
U _{ACC}	Output voltage accuracy		±1.5			%
	Output voltage adjust					%
	Line regulation			±0.5		%
	Load regulation	10% / 100% step load change		s: ±0.5, d: ±1		%
	Load transient recovery time	25% / 100% step load change		< 500		µs
	Load transient error band			±6		%
	Temperature coefficient			±0.03		%/K
	Ramp up time					ms
	Start up time					ms
	Ripple and noise	BW = 20MHz	75			mVpp
	Current limit					%
	Over voltage protection					%
	Short circuit protection					%
	Short circuit characteristic		continuous			

General Specifications

Characteristic		Conditions	min	typ	max	unit
U _{ISO}	Isolation voltage		1500			V
R _{ISO}	Isolation resistance		> 1G			Ohm
R _{ISO}	Switching frequency		100			kHz
	Approvals					
	MTBF					h
	Case material		Non-Conductiv Black Plastic			
	Compound material					
	PCB material					
	Weight		4.8			gr
	Dimensions		21.8 x 9.2 x 11.1			mm
	Soldering infos		275°C for 10			s

EMC Specifications

Characteristic		Conditions	min	typ	max	unit
	EMC conducted					

Environmental Specifications

Characteristic		Conditions	min	typ	max	unit
T _{CASE}	Operation temperature		-40...+85			°C
T _{AMB}	Storage temperature		-55...+125			°C
T _{SD}	Thermal shutdown range		Tcase = 100			°C

Own notes

Eigene Notizen

Vos notices

No EMC graph available yet, please contact factory

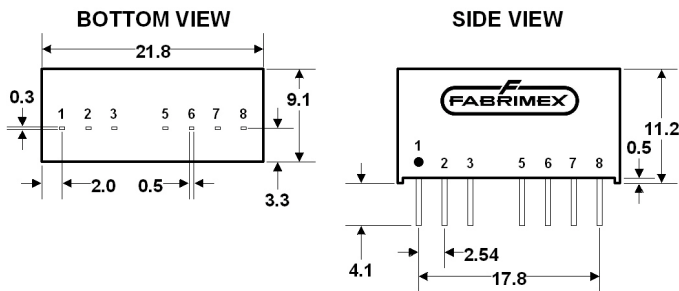
No EMC filter available yet, please contact factory

Case

Gehäuse

Boîtier

Normal tolerance $1/10 \pm 0.5$ mm, $1/100 \pm 0.25$ mm; Pin tolerance ± 0.5 mm diameter, NP = No pin, NC = Not connected



Pin	Single	Dual	Pin
1	-Vi	-Vi	1
2	+Vi	+Vi	2
3	on/off	on/off	3
5	NC	NC	5
6	+Vo	+Vo	6
7	-Vo	Com	7
8	NC	-Vo	8

Cleaning

Waschen

Lavage

The modules are cleanable with the today's known and in the electronics industry usually used products. Due to the different cleaning processes and new available products, we highly recommend to do a compatibility test when using the converters the first time.

Die Module sind waschbar mit den heute bekannten und in der Elektronikindustrie üblichen Reinigungsmitteln. Bedingt durch die verschiedenen Reinigungsprozesse und neu auf den Markt kommende Mittel, raten wir dringend beim Ersteinsatz der Konverter eine Verträglichkeitsprüfung vorzunehmen.

Les modules sont lavables avec les solvants couramment utilisés dans l'industrie électronique. Dû aux différents processus de lavage et aux nouveaux détergents disponibles sur le marché, il est strictement recommandé de faire un test de compatibilité avant la première utilisation.

Own notes

Eigene Notizen

Vos notices

Notice: All statements, technical information, and recommendations related to FABRIMEX's products are based on information believed to be reliable, but the accuracy or completeness thereof is not guaranteed. Before utilizing the product, the user should determine the suitability of the product for its intended use.

Switzerland:
FABRIMEX AG - Techcenterstr. 2
CH-8608 Bubikon
Tel: +41 55 253 31 90 - Fax: +41 55 253 31 91
Internet: www.fabrimex.ch



Germany:
CAC FABRIMEX GmbH - D-89543 Gerstetten
Tel: 07323/ 95000 - Fax: 07323/ 95050