

DC / DC POWER SUPPLY
with very high insulation voltage

SW50 - 24D10A



$V_{in} = 24 \text{ V DC}$
 $I_{outn} = 10 \text{ A AC}$
 $V_{iso} = 50 \text{ kV}$
 $P_{max} = 60 \text{ W}$

Siebel
Elektronik GmbH

Revision 1

Valid from device-revision E

05.11.2021

APPLICATIONS

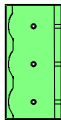
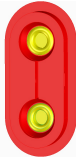
- Current loop supply
- Supply of up to 8 decoupling units DU15-15G

ELECTRICAL DATA

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Input Voltage U_{in}	DC voltage	23	24	25	V
Output Current I_{out}	$U_{in} = 24 \text{ V}$	7	10	12	A
Output Frequency			45		kHz
Max. Output Power P_{max}	$U_{in} = 24 \text{ V}$	50	60		W
Input Power	$P_{out} = 50 \text{ W}$, $U_{in} = 24 \text{ V}$, 2m output slope	55		60	W
Insulation Voltage output to ground V_{iso}	50 Hz AC voltage, 60 s, without partial discharge ($< 10 \text{ pC}$)	45	50		kV
Insulation Capacitance	output to ground		20		pF
Basic Insulation Level (BIL)	1,2 μs /50 μs , 15 pulses each polarity	150			kV
Max. dv/dt (Insulation)	ground connection at base plate			25	kV/ μs
Ambient temperature	max. load of 60W	-40		60	$^{\circ}\text{C}$
Storage temperature		-40		85	$^{\circ}\text{C}$

The device is equipped with a self protection feature. In case of overcurrent or excess temperature it shuts down until next powercycle. Error condition is shown with a red LED at the left side of the input connector.

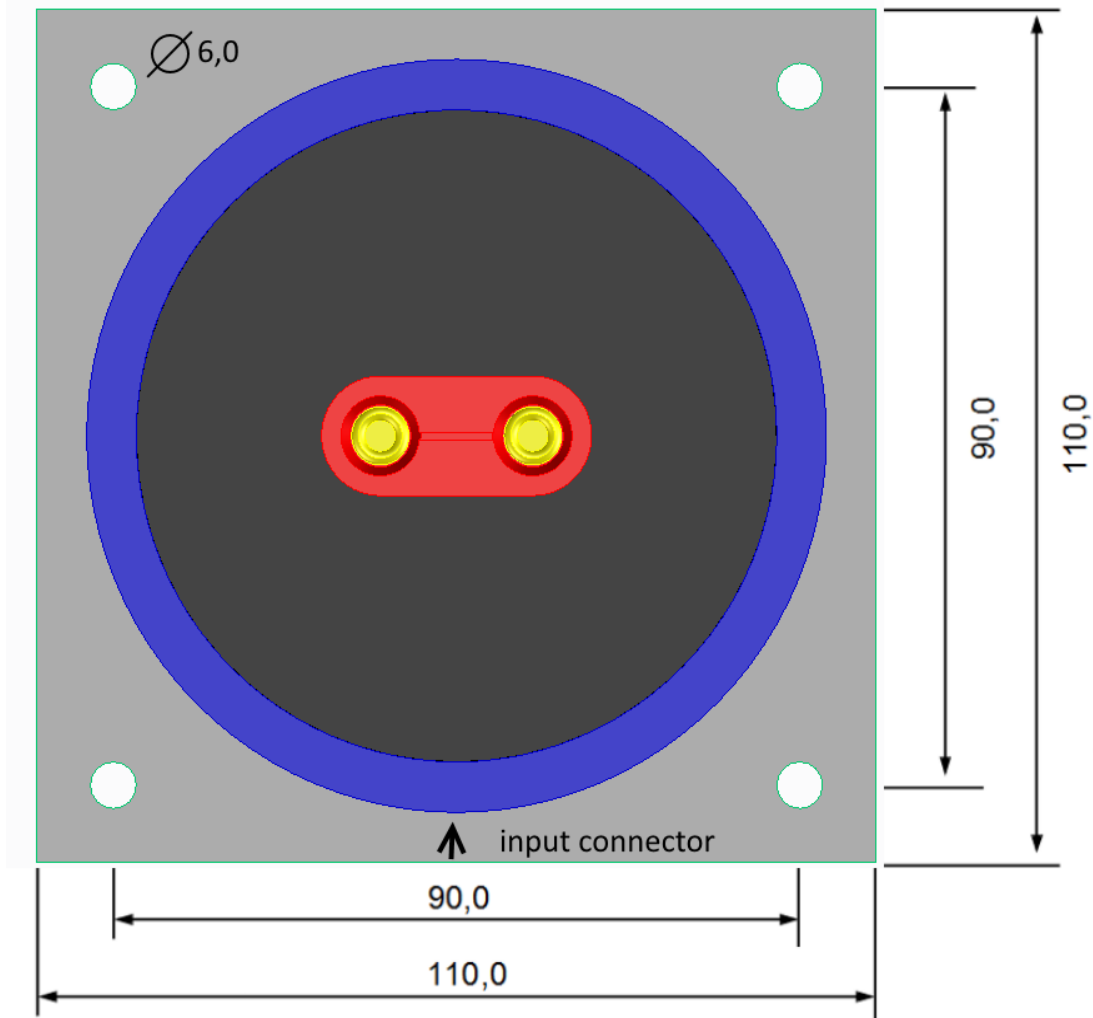
CONNECTION DATA

Input Connector Phoenix 1926028		1 = Ground (earth) 2 = Input voltage + 3 = Input voltage -
Output Connector connector für 4mm bunch-plugs with strain relief for 10mm HSC30-cable		1 = AC1 Output voltage ~ 2 = AC2 Output voltage ~

INSTALLATION INSTRUCTIONS

- It is important to make a low inductive ground (earth) connection.
- The environment must be clean and dry. Excessive temperature should be avoided.
- Devices from factory are normally adjusted to a output cable slope length between 1 and 10 meters of HSC30 cable. If your application requires a different cable length please contact us beforehand so that you will receive a suitable device.

DIMENSIONS



PARAMETER	TYP	UNIT
Height	148	mm
Creepage distance output to input side (earth)	210	mm
Weight	1600	g

IMPORTANT NOTICE

Siebel Elektronik GmbH reserves the right to change specifications without notice. Siebel Elektronik GmbH does not provide any guarantee regarding the suitability of this product for any particular purpose. Mounting only by technical experts.