

Any voltage you need: iesy SMG-series now with 48Vdc output voltage for 200 & 360W and with adjustable output voltage

The SMG-series is a unique series galvanic isolated high quality DC/DC converter. The inlets and outlets feature complete galvanic isolation which makes them completely interference-proof. The converter uses the "switch mode" technology, which results in a lightweight compact housing, safe, reliable and efficient unit. The unit generates little heat, which makes it easy to find a convenient location for installation.

This series is eminently suitable for applications requiring stability, a modest development of heat and above all a low energy consumption (stand-by current <25mA)!

Protections: over current / overload, over voltages, overheating, reverse polarity connection.

Markets: industry, internal transport, telecommunication, maritime, mobile and aircraft.

The iesy SMGCH 12A (12V=>27,6V/12A) is an 24 Volt battery charger with galvanic isolation

To charge a 24V battery from a 12V system. With this type the output voltage is adjustable with a potentiometer.

Input 9 – 18 V, output 27,6 V, current limit 12 A, fan assisted cooling.

A superwide input range buck boost regulator:

iesy SMG 3A (7-35V=>12V/3A)

The SMG 3A is an galvanic isolated converter with a very wide input range, suitable for both 12 V and 24 V systems, and a fixed 12,6 V output.

Input 7 – 35 V; Output 12,6 V; Current limit 3 A, current decrease linearly from 3 A at 18 V to 1,5 A at 7 V.

Series iesy SMG
DC / DC Converter
With galvanic isolation
(Switch Mode Galvanic)



New enclosures mid 2011

Converters denote DC / DC converters with different input voltage range and a wide range of fixed output voltage. Therefore, these converters also serve to stabilize the supply voltage for the connected equipment! Also, for example, car radios, navigation or mobile (phone) adapters, the 12 volt models are available in great variety. The same equipment for 24 volts are much more expensive relative to reduced supply. For these purposes, are the iesy SMG converters an affordable and easy to install solution for operating the 12 volt equipment in trucks, buses and construction equipment.



SMG 3A

SMG 1224/360

* SMG 1248/400W

* **SMG 1248/400** with „Coupler“ (12V_{DC}=>48V_{DC}/400W); SMG Series: The inputs can be connected parallel, the outputs in parallel and in series. SMG Series 200W & 360W: Adjustable output voltage + / - 10%

Type	Input (V _{DC})	Output (V _{DC})	Current (A)	Load (W)	Weight (g)	Dim. LxWxH (mm)
SMG 1212-100	9-18	12,5	8	100	500	152x88x49
SMG 2412-100	20-35	12,5	8	100	500	152x88x49
SMG 4812-100	30-60	12,5	8	100	500	152x88x49
SMG 7212-100	60-120	12,5	8	100	500	152x88x49
SMG 1224-100	9-18	24	4	100	500	152x88x49
SMG 2424-100	20-35	24	4	100	500	152x88x49
SMG 4824-100	30-60	24	4	100	500	152x88x49
SMG 7224-100	60-120	24	4	100	500	152x88x49
SMG 1212-200	9-18	12,5	15	200	600	182x88x49
SMG 2412-200	20-35	12,5	15	200	600	182x88x49
SMG 4812-200	30-60	12,5	15	200	600	182x88x49
SMG 7212-200	60-120	12,5	15	200	600	182x88x49
SMG 1224-200	9-18	24	7,5	200	600	182x88x49
SMG 2424-200	20-35	24	7,5	200	600	182x88x49
SMG 4824-200	30-60	24	7,5	200	600	182x88x49
SMG 7224-200	60-120	24	7,5	200	600	182x88x49
SMG 2448-200	20-35	48	3,2	200	600	182x88x49
SMG 4848-200	30-60	48	3,2	200	600	182x88x49
SMG 1212-360	9-18	12,5	25	360	1400	160x163x64
SMG 2412-360	20-35	12,5	25	360	1400	160x163x64
SMG 4812-360	30-60	12,5	25	360	1400	160x163x64
SMG 7212-360	60-120	12,5	25	360	1400	160x163x64
SMG 1224-360	9-18	24	12,5	360	1400	160x163x64
SMG 2424-360	20-35	24	12,5	360	1400	160x163x64
SMG 4824-360	30-60	24	12,5	360	1400	160x163x64
SMG 7224-360	60-120	24	12,5	360	1400	160x163x64
SMG 2448-360	20-35	48	6,2	360	1400	160x163x64
SMG 4848-360	30-60	48	6,2	360	1400	160x163x64
SMG 3A	7-35	12,6	1,5 - 3	19 - 38	270	86x88x49
SMGCH 12A	9-18	27,6	12	330	1400	160x163x64

Isolated converters	SMG xx/yy-100W	SMG xx/yy-200W	SMG xx/yy-360W
Power rating (W)	100 (12,5V/8A or 24V/4A)	200 (12,5V/16A, 24V/8A or 48V/4A)	360 (12,5V/30A, 24V/15A or 48V/7,5A)
Temperature increase after 30 minutes at full load (°C)	25	30	30
Fan assisted cooling (temp. controlled)	no	yes	yes
Input voltage (xx): 12 V (9 – 18 V) or 24 V (20 – 35 V) or 48 V (30 – 60 V) or 72 V (60 – 120 V)			
Output voltage (yy): 12,5 V, 24V (or 48 Vdc output voltage for 200 and 360W with input voltage of 24 or 48Vdc)			

Specials and/or private label on request / For more information see Manuals