An “iesy” wide range DC/DC converters

A complete line of high quality DC/DC converters in a compact housing.
This series is eminently suitable for applications requiring stability, a modest development of heat and above all a low energy consumption.
An ever-increasing amount of electric equipment is being used on vehicles and boats. Because most low voltage equipment, such as navigation and radio equipment, mobile telephones or car hi-fi systems, is designed for 12 Volts, “iesy” supplies DC/DC converters which deliver a stable 12 Volt supply from a 24 Volt system. These products are also distinguished by high efficiency, together with absolute safety.
An inferior supply can cause irreparable damage to your 12 Volt system, but the use of an “iesy” voltage converter prevents such problems.
Next to the standard (non isolated) converters from 24 V to 12 V, a wide range of other models is available.

The SMC 5, 20, 30 & 60 can also be used as a 13.8Vdc battery charger

The „iesy“ SMC 5, 20, 30 and 60 can also be used as a 13.8Vdc battery charger, to charge from a 24V system a 12V starter or accessory battery. Two units SMC 60 can be connected in parallel to obtain a **120 A battery charger!**

Series iesy SMC

DC / DC Converter
Not isolated
(**S**witch **M**ode **C**onverter)

SMC 8 (IN: 20-35Vdc - OUT: 13,6Vdc/8A)

iesy DC/DC-converter and battery charger: Because most equipment is designed for use on a 12V board system it is necessary to use a converter on 24V board systems (trucks, busses etc.) to convert the 24V to a reliable and safe 12V. It is important to use as little energy as possible and produce as little heat as possible in this process, making it fuel-efficient and therefore environmentally friendly.

SMUC 10 (**S**witch **M**ode **U**p **C**onverter)

SMC 60 (2x SMC 60 Parallel => **120 A)**

Type	Input (V_{DC})	Output (V_{DC})	Current (A)	Load (W)	Weight (g)	Dim. LxWxH (mm)
SMC 5*	18-35	13,8	5	69	170	68x88x49
SMC 8	18-35	13,6	8	109	262	98x88x49
SMC 10-MEM **	18-35	13,6	10	136	262	98x88x49
SMC 12	20-35	13,6	12	158	262	98x88x49
SMC 20 *	20-35	13,8	20	276	477	126x88x49
SMC 30 *	20-35	13,8	30	414	600	151x88x49
SMC 60 *	20-35	13,8	60	828	1200	176 (151)x88x98
SMC 6HV	24-60	12,3	6	74	240	86x88x49
SMUC 5 (Step-Up)	5-7	12	5	60	270	98x88x49
SMUC 7 (Step-Up)	9-18	25	7	175	310	98x88x49
SMUC 10 (Step-Up)	9-18	25	10	250	500	126x88x49

* all models with 13,8 V output can also be used as a 12 V battery charger, for example as a 12 Volt starter or accessory battery in an otherwise 24V system.

Note: two units SMC 60 can be connected in parallel to obtain a **120 A** converter / charger.

** The SMC 10-MEM has a extra memory output (max. 20mA) for example the memory in a car radio (channels).

Common Characteristics	
Output voltage stability	2 % (SMUC 7 and SMUC 10: + 0% / -5%)
Output voltage tolerance	3 %
Output noise	< 50 mV rms
Off load current	< 25 mA (isolated converters)
Efficiency	Non isolated: approx. 92% Isolated: approx. 85%
Isolation	> 400 Vrms between input, output and case (isolated products only)
Operating temperature	- 20 to + 30°C (0 to 90°F). Derate linearly to 0 A at 70°C (160°F)
Humidity	Max 95% non condensing
Casework	Anodised aluminum
Connections	6.3 mm (2.5 inch) push-on flat blade connectors
Protection: Overcurrent Overheating Reverse polarity conn. Overvoltage	Short circuit proof Reduction of output voltage Fuse and reverse connected diode across input Varistor (also protects against load dump)
Standards: Emission Immunity Automotive Directive	EN 50081-1 EN 50082-1 95/45/EC

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