SMART-IN

The **high-quality** inverter

- HIGH EFFICIENCY
- PROFESSIONAL COMPONENTS
- INTEGRATED PRIORITY CIRCUIT (IVT) OPTION

SMART-IN are the inverters, remarkable for design and quality. Designed to provide high performances, maximum safety, reliability and, above all, silent operation, important for those who install the inverter inside the recreational vehicle.

The SMART-IN family consists of two lines: Modified and Pure distinguished by the output waveform. The two product lines cover a wide range of powers from 400W to 3000W, with the possibility (for some models) to have 24V input voltage.

PROFESSIONAL CONNECTORS

Connections welded directly to the PCB with high conductivity bars prevent voltage drops, power losses and lower battery consumption.

IN/OUT IVT INVERTER

The standard versions have one or two output sockets, while for the models with IVT *(integrated priority function)*, there is one output socket and one input socket (IEC), protected by a fuse, where the external main is connected.

EASY INSTALLATION

The integrated mounting feet allow a safe installation in any position. Supplied with ultra-flexible input connection cables, specific and already sized for the device.

MAIN FEATURES:

- High efficiency up to 93%
- Low self-consumption
- Input with professional connectors
- Predisposition for remote control ON/OFF
- Input and output completely isolated

PROTECTIONS:

- Soft Start
- Protection against overload and Short circuit
- Low battery alarm
- Protection against polarity inversion
- Over-temperature protection

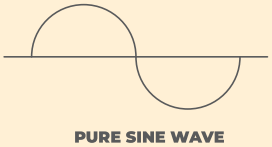
TIPS

Pure or **Modified** Wave?

Smart-In Pure, with sophisticated electronics, generates a 230V output with *"pure sine wave"*, the same type of domestic electrical network. An essential solution for sensitive and valuable devices, such as laptop PCs, air conditioners, coffee machines.

Smart-In Modified, with a relatively simpler and cheaper electronic circuit than the Pure version, generates a *"modified sine wave"*, **similar to a square wave**.

This series is recommended for simpler loads, such as lighting, resistive loads... etc.
Remember: The modified wave may shorten the life of your devices.


PURE SINE WAVE


MODIFIED SINE WAVE

PLUS DISCOVER ALL ACCESSORIES FOR INVERTERS AT PAG. 44

SMART-INMODIFIED

Modified sine wave

TECHNICAL FEATURES

CODE	INPUT VOLTAGE	CONTINOUS POWER	PEAK OUTPUT POWER	OUTPUT VOLTAGE	USB OUTPUTS	SIZE (mm)	CABLE INCLUDED
SM 400	12V	400W	800W	230Vac	5V 2,1A	185x140x70h	6mm² length 80cm
SM 600	12V	600W	1200W	230Vac	5V 2,1A	215x140x70h	10mm² length 80cm
SM 1000	12V	1000W	2000W	230Vac	5V 2,1A	270x270x108h	16mm² length 80cm
SM 1500	12V	1500W	3000W	230Vac	5V 2,1A	270x270x108h	25mm² length 80cm
				24V			
SM 600-24	24V	600W	1200W	230Vac	5V 2,1A	215x140x70h	10mm² length 80cm

SMART-INPURE

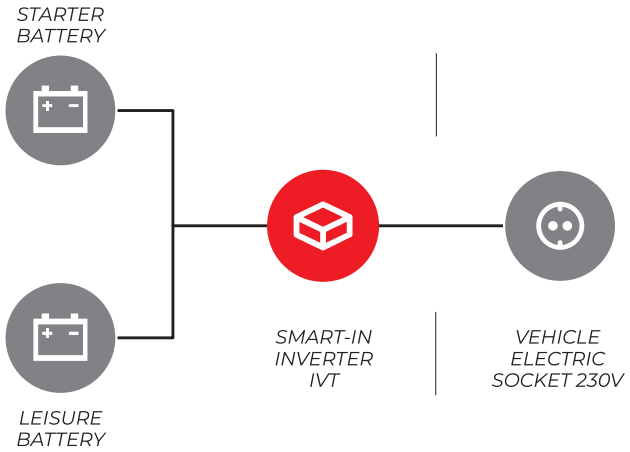
Pure sine wave

TECHNICAL FEATURES

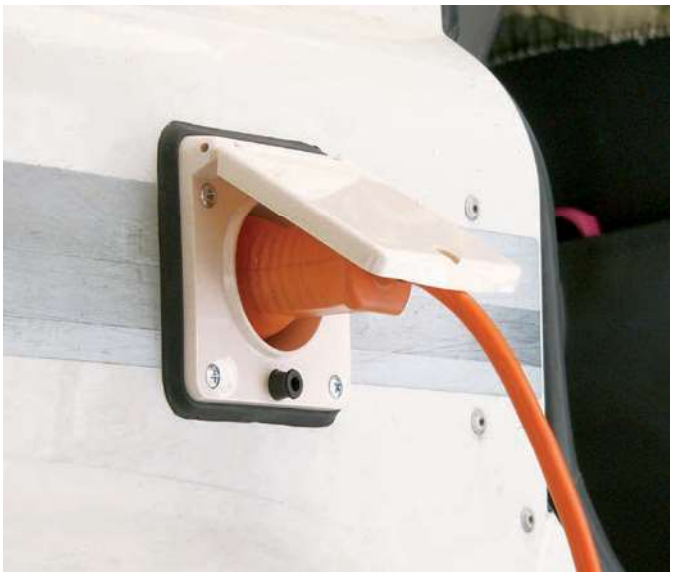
CODE	INPUT VOLTAGE	CONTINOUS POWER	PEAK OUTPUT POWER	OUTPUT VOLTAGE	USB OUTPUTS	SIZE (mm)	CABLE INCLUDED
SP 400	12V	400W	1000W	230Vac	5V 2,1A	215x140x70h	6mm² length 80cm
SP 600	12V	600W	1500W	230Vac	5V 2,1A	245x140x70h	10mm² length 80cm
SP 1000	12V	1000W	3000W	230Vac	5V 2,1A	305x270x108h	16mm² length 80cm
SP 1500	12V	1500W	4000W	230Vac	5V 2,1A	325x270x108h	25mm² length 80cm
SP 3000	12V	3000W	8000W	230Vac	5V 2,1A	450x270x108h	35mm² length 80cm
				24V			
SP 600-24	24V	600W	1500W	230Vac	5V 2,1A	245x140x70h	10mm² length 80cm
SP 1500-24	24V	1500W	4000W	230Vac	5V 2,1A	325x270x108h	25mm² length 80cm
SP 3000-24	24V	3000W	8000W	230Vac	5V 2,1A	450x270x108h	35mm² length 80cm

SMART-INPUREIVT

Pure sine wave



SMART-INPURE with IVT function is a line of inverters with an integrated system of priority (Priority Switch type). This special IVT function, through the two input and output 230V sockets, allows the management of the voltage that comes out from the inverter connected to the battery and to the external mains.
When the electronic network is available is connected to the external grid, it will have the priority in order to preserve the battery; otherwise, when the main is disconnected, the inverter use the battery to supply the 230V.



DISTINCTIVE FEATURES:

- By-pass integrated function
- Relay time change from inverter 230 VAC to external main= 20 ms
- Relay time change from 230 VAC

TECHNICAL FEATURES

CODE	INPUT VOLTAGE	CONTINOUS POWER	PEAK OUTPUT POWER	OUTPUT VOLTAGE	USB OUTPUTS	SIZE (mm)	CABLE INCLUDED
SP 1000-I	12V	1000W	3000W	230Vac	5V 2,1A	305x270x108h	16mm² length 80cm
SP 1500-I	12V	1500W	4000W	230Vac	5V 2,1A	365x270x108h	25mm² length 80cm
SP 2000-I	12V	2000W	6000W	230Vac	5V 2,1A	390x270x108h	35mm² length 80cm

TIPS

What is the **IVT** funtion?

More frequently, the inverter is the only solution for powering loads in the vehicle, but its dimensions and power *(above 1000W)* make it impractical to move as required. The **IVT** function is a priority system that allows the inverter to automatically power itself from the 230V mains, when available, and return to using the battery when necessary.

This function makes it possible to safely connect the inverter output to the vehicle's electrical circuit, so as to always have all the sockets powered, leaving the inverter conveniently installed near the leisure battery.

BEST WITH

SMART-LINK

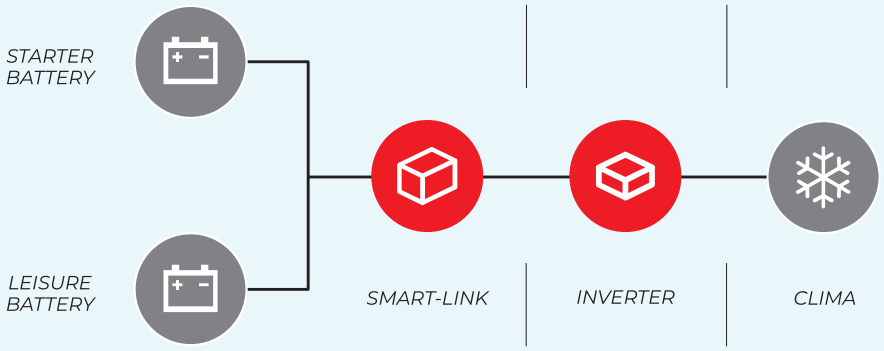
DC Link Manager

Cod. SL 12-100

It is an intelligent 12V DC power distributor that can be installed on any system, and combined with an inverter, allows the use of heavy loads, even when the vehicle is running, always keeping the electrical system and the batteries safe.

By connecting to SMART-LINK: inverter, starting battery and leisure battery you can use air conditioners, without risk *(with batteries of adequate capacity)*.

The device is equipped with a three-way connector to which are connected the contacts of a dedicated relay *(A, B and C)* that can be used, e.g. to manage air conditioners with an economy function, temporarily turning off the compressor and leaving the rest of the circuit active.



PLUS

ACCESSORIES

Inverter

REMOTE CONTROL

Remote control for inverter. Allows to turn the inverter on and off from distance.

Cod. **RC02 · RC03**

FUNCTIONAL CONNECTOR

ON/OFF Remote control adaptor for inverters, to connect to every remote control.

Cod. **FC02**

4mm²/6mm² CABLES

4 mm_2 cables with clips, 60cm length.
6 mm_2 cables with clips, 60cm length.

Cod. **BVR4 · BVR6**

CAR LIGHT ADAPTER

2,5 mm_2 cables 50 cm length, with connector.

Cod. **CLB01**

PRIORITYSWITCH

IVT Function

Cod. SP 230

PRIORITYSWITCH is an intelligent system that allows the use of the inverter and batteries only when it is really necessary. It is a management system of the 230V, useful when the system has two power sources: electrical network and an inverter connected to the battery.
By connecting the two power sources to the input of the PRIORITYSWITCH, the external main will always have the priority. There are two outputs, the first one to connect all loads to be used only when the main network is present, such as air conditioners, refrigerators and other big loads; the second output, instead, is dedicated to all the accessories that can be powered either by the inverter than from the main, for example, the 230V sockets of the vehicle.

TECHNICAL FEATURES	
Voltage Input/Output	230Vac / 230Vac
Maximum Output Current	13A
Fuse	15A
Inverter Maximum Power	3000W
Self-consumption	30mA only grid
Size	145x133x55mm

POWERNEGATIVE

Negative Booster

The DC-DC voltage converters **NDS** line are electronic devices that can reduce a voltage of 17 ~ 32VDC in a constant of 14V ± 10%. Three different versions are available, with an output power of 10A, 30A, 60A depending on the model. The devices appear to be very useful in all those situations where it is necessary to supply utilities with 12V rated voltage but the vehicle or the power source has a voltage of 24V.

MAIN FEATURES:

- DC-DC reducer
- Automatic charge limitation
- Soft start
- Ideal for 24V vehicles with 12V loads

CODE	PN 2412-10	PN 2412-30	PN 2412-60
Input Voltage	13V - 40V	13V - 40V	13V - 40V
Output Voltage	14V ± 10%	14V ± 10%	14V ± 10%
Maximum Output Power	10A	30A	60A
Maximum Power	140W	400W	800W
Self-Consumption	35mA	98mA	220mA
Size	121x91x48mm	152x91x48mm	238x178x68mm

BATTERIES