

DC-DC Isolated Power Converter

This series of MOTORMATE compact DC-DC Isolated Power converter using latest switch-mode technology are developed to meet the modern automobile applications.

Galvanic isolated means you can connect to any loading without worrying about the interruption from input to the output. You can even use this isolated power converter to charging batteries to extend the batteries life cycle. Single or parrallel operation gives you're the great flexibility to expand the power whenever is needed. This DC-DC isolated power converter is ideally to use in any application where a stable and clean DC voltage is necessary.

This converter can be used in all vehicles or boats where it is necessary to run 12VDC from the 24VDC battery system or vice versa. ALL UNITS ARE FITTED WITH AN OVERLOAD AND SHORT CIRCUIT PROTECTION. It will automatically swtich off the unit and restart to operate if the overload or short circuit is removed.





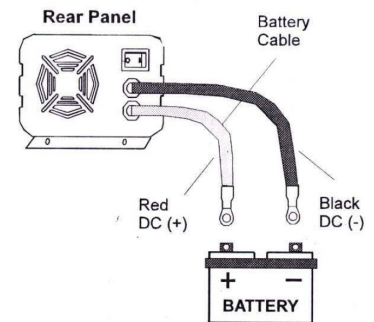
Remote on/off controls

The external lead wire on the rear panel is used for remote switching with on-board voltage (e.g. ignition from the vehicle engine or external switch). Note: The device power On/Off switch must be switched off after the external lead wire is connected

Caution: To prevent malfunction of the device, keep the external lead wire insulated if it is not in use

Instructions and normal response

1. Connect the input cables to the DC source. Make sure the battery polarity is correct before connecting or the booster will be damaged.
2. Turn on the power on/off switch, the "power On" LED lights up. This indicates the input DC voltage is present and the regulated DC voltage is ready at the output terminal. The device is ready for use and load can be connected to the output terminals.
3.  The Yellow LED lights up if the input voltage is low. The booster will stop if the input DC voltage is too low.
4.  The Red LED lights up if the booster is overloaded or the output is short circuit. The booster will stop operating and will automatically re-start if excessive load is reduced or short circuit problem is corrected.
5. The cooling fan is thermal controlled. It will switch on and off to control the internal temperature of the device.



Model	IPC-2110	IPC-2120	IPC-2130
Input and output			
Output Current	10A	20A	30A
Input Voltage	20-32VDC		
Output Voltage	13.8VDC		
Line Regulation	20mV		
Efficiency	90%		
Ripple & Noise	30mV RMS		
Load Regulation	30mV from no load to full load		
Protections			
Ignition Protected	yes		
Short Circuit Protection	yes		
Overload Protection	yes		
Overheat protection	yes		
Features			
Parallel operation	yes		
Suitable for battery charging	yes		
Galvanic isolation	yes		
Non-interference on Radio/TV	yes		
Physical			
Input connection	Cable with terminal rings		
Isolation Output	Terminal block x 2		
LED indication	Green- Power on, Yellow - Input low - Red - Output overloaded		
Operation temperature	0C to 40C		
Weight	0.75	1.0	1.6
Dimentions l x w x h mm	10X11.5X7	14X11.5X7	21X11.5X7