

# DC - DC Isolated Power Booster

## Best for charging battery from long distance connection



Modern mobile electronic and computer base device are required a stable and clean voltage supply in order to keep the device working at its best performance. Many of the chargers operated from the generator are unstable and will shorten the lifetime of the battery and electronic device.

The Motormate DC-DC isolated power booster is ideally to run the electrical appliance in motor home, trucks and pleasure boat. It can be installed in caravan or marine where it is necessary to charge battery from an unstable charging system and to compensate for line loss from long distance charging.

Galvanic isolated means you can connect to any loads without interruption from input to the output. External power on/off controls the booster from the vehicle engine to save energy while it is in idle.



**Galvanic Isolated**



### Features :

- High efficiency
- Ignition protected
- Galvanic isolated
- Regulated output
- Low ripples & noise
- EMC interference immunity
- External control operation
- Ideal for battery charging



# DC - DC Isolated Power Booster

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The MOTORMATE DC – DC Isolated Power Booster designed with the latest switch-mode technology to meet the modern automobile applications. Install the Motormate Power Booster in motor home, caravan or marine to operate the electronic and computer base device at its best performance with a stable and clean voltage supply.

Charging the battery from a long distance connection without worrying about the line loss while in traveling. Single unit or parallel operation gives you the great flexibility to expand the power whenever is needed.



### Technical Specifications

12V / 24V DC – DC Isolated Power Booster

MODELS	PB-1108	PB-1120	PB-1130	PB-1140	PB-2205	PB-2210	PB-2215	PB-2220
<b>INPUT AND OUTPUT</b>								
Continuous Output Current	8A	20A	30A	40A	5A	10A	15A	20A
Input Voltage	12VDC (8 ~ 16VDC operative)				24VDC (20 ~ 32VDC operative)			
Output Voltage	13.8VDC				27.6VDC			
Line Regulation	20mV				20mV			
Efficiency	90% at full load				90% at full load			
Ripple & Noise	30mV rms				50mV rms			
Load regulation	30mV from no load to full load				30mV from no load to full load			
<b>PROTECTIONS</b>								
Ignition Protected	Yes				Yes			
Short Circuit Protected	Yes				Yes			
Overload Protected	Yes				Yes			
Overheat Protected	Yes				Yes			
<b>FEATURES</b>								
Parallel operation	Yes, allow parallel connection				Yes, allow parallel connection			
Battery charging	Yes, suitable for battery boost charging				Yes, suitable for battery boost charging			
External control	Yes, power on after engine start up				Yes, power on after engine start up			
Galvanic isolated	Yes, input and output is fully isolated				Yes, input and output is fully isolated			
<b>PHYSICAL</b>								
Input connection	Cable with terminal rings				Cable with terminal rings			
Output connection	Terminal block				Terminal block			
Display	External control, Green - Power On, Yellow - Input Low, Red - Output Overload							
Cooling	Natural	Thermally control cooling fan			Natural	Thermally control cooling fan		
Operation temperature	-20°C to 50°C							
Case	Anodized aluminum case with mounting cover				Anodized aluminum case with mounting cover			
Weight (kg)	0.75	1.2	1.7	2.1	0.75	1.2	1.7	2.1
Size (cm) L x W x H	10 x 11.5 x 7	16 x 11.5 x 7	25 x 11.5 x 7	27 x 11.5 x 7	10 x 11.5 x 7	16 x 11.5 x 7	25 x 11.5 x 7	27 x 11.5 x 7

\* Specifications subject to change without prior notice.

