

# DC-DC ISOLATED POWER CONVERTER

**Motormate**<sup>®</sup>  
MOBILE DC POWER SOURCE

A stable and clean power source for your motor-home and pleasure boat

Motormate compact DC - DC isolated Power Converter utilizing 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 or corrosion from input to the output. You can even use this converter to charging the battery to extend the battery life cycle.

Series or Parallel operation gives you the great flexibility to expand the power whenever is required. This DC - DC fully isolated power converter is ideally to use any application where a stable and clean DC voltage is needed.

## PROTECTION

- Overload protected
- Ignition protected
- Short circuit protected
- Overheat protected

## FEATURES

- Regulated output voltage
- User-friendly LED display
- Compact and lightweight
- Series or parallel operation
- Suitable for battery charging
- High efficiency
- Galvanic isolated
- Ignition protection
- Low ripple & noise
- USB output



Galvanic  
Isolated



Available 10A - 40A

- 12 VDC to 24 VDC
- 24 VDC to 12 VDC
- 48 VDC to 12 VDC
- 36 VDC to 12 VDC
- 48 VDC to 24 VDC



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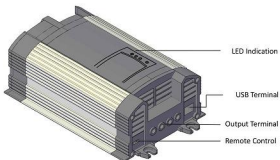
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FOR YOUR MOTOR-HOME AND PLEASURE BOAT

## Technical Specifications

MODELS	SP-1210 AU	SP-1215 AU	SP-1220 AU	SP-2120 AU	SP-2130 AU	SP-2140 AU
<b>INPUT AND OUTPUT</b>						
Continuous Output Current	10A	15A	20A	20A	30A	40A
Input Voltage	12VDC (10 ~ 16VDC operative)			24VDC (20 ~ 32VDC operative)		
Output Voltage	27.6VDC			13.8VDC		
Line Regulation	40mV			20mV		
Efficiency	Up to 90%			Up to 90%		
Ripple & Noise	50mV rms			30mV rms		
Load regulation	20mV from no load to full load			30mV from no load to full load		
<b>PROTECTIONS</b>						
Ignition Protected				Yes		
Short Circuit Protected				Yes		
Overload Protected				Yes		
Overheat Protected				Yes		
<b>FEATURES</b>						
USB output				Yes, 5VDC max output current 100mA		
Series or Parallel operation				Yes, allow series or parallel connection		
Battery charging				Yes, suitable for battery boost charging		
Galvanic isolated				Yes, input and output is fully isolated		
<b>PHYSICAL</b>						
Input connection				Terminal		
Isolated Output				Terminal block x 2		
LED Display				Green - Power On, Yellow - Input Low, Red - Output Overload		
Cooling				Thermally control cooling fan; auto start on overheated		
Operation temperature				-20°C to 50°C		
Case				Anodized aluminum case with mounting cover		
Weight (kg)	0.9	1.2	1.5	0.9	1.2	1.5
Size (mm) L x W x H	180 x 145 x 80	210 x 145 x 80	230 x 145 x 80	180 x 145 x 80	210 x 145 x 80	230 x 145 x 80

\* Specifications subject to change without prior notice.



External switch  
for remote On/Off

