Motormate®
MOBILE DC POWER SOURCE

DC-DC
ISOLATED POWER CONVERTER
A STABLE AND CLEAN POWER SOURCE
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
INPUT AND OUTPUT						
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		
PROTECTIONS						
Ignition Protected	Yes					
Short Circuit Protected	Yes					
Overload Protected	Yes					
Overheat Protected	Yes					
FEATURES						
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					
PHYSICAL						
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.**

