

Product Fact Sheet



MPC MILITARY FIELD-GRADE
MPC-1250DC
Constant Current

Military Field-Grade Power Conditioner

1250 W Output Power	80-265 Vrms 47-65 Hz or 47-800 Hz <small>AC Input Voltage Options</small>	28 Vdc @ 45 A <small>DC Output Options</small>	with Constant Current <small>DC Output</small>
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Full Power Operating Temperature: -40°C to +55°C



Key Features

- Military Field-Grade Power Conditioner for MIL-STD-1275 Applications
- 47 A Constant Current overload protection suitable for large lead-acid battery charging applications
- 22 - 33 V user adjustable output voltage to match lead-acid battery parameters
- Directly connect output to 28 V vehicle power systems
- Sealed, weather-proof, shock-proof construction
- 1250 W output power
- Full power operation: -40°C to +55°C
- Universal AC input: 80-265 VAC; 47-65 Hz
- Power factor correction at AC input
- Dual input (AC and DC)
- True on-line double conversion
- Fully Regulated 28 V DC output
- Up to 32 units in parallel with N+M redundancy
- User I/O and Configuration signal ports
- 1U Shallow rack mount unit (17.00"W x 14.80"D x 1.73"H)
- 1U Low weight: 22 lbs.

Designed and manufactured in the USA

Specification Compliance

- MPC-1250 units are designed to meet:**
- MIL-STD-1399-300B - Interface Std for Shipboard Systems
 - MIL-STD-810G - Environmental Engineering Considerations
 - MIL-STD-461F - Electromagnetic Interference
 - MIL-STD-704F - Aircraft Electrical Power Characteristics
 - MIL-STD-1275D - Vehicle Electrical Power Characteristics

Part Number Scheme

[Data sheet Online Link](#)

MPC-1250-1S

MPC	AC Input Frequency	DC Regulation Type	DC Output	DC Input	Communication	Additional Options
MPC-1250-1S-	L: 47 - 65 Hz W: 47-800 Hz	C: Constant Current Overload Protection	28: 28 V Output	D00: DC Input	E: Ethernet/SNMP	00: No CE Marking CE: CE Marking

Example: MPC-1250-1S-LR28D00-E00, MPC-1250-1S-WP24D00-E00, MPC-1250-1S-LR28D00-ECE (Fully Regulated with CE Marking)

[Accessories Online Links](#)

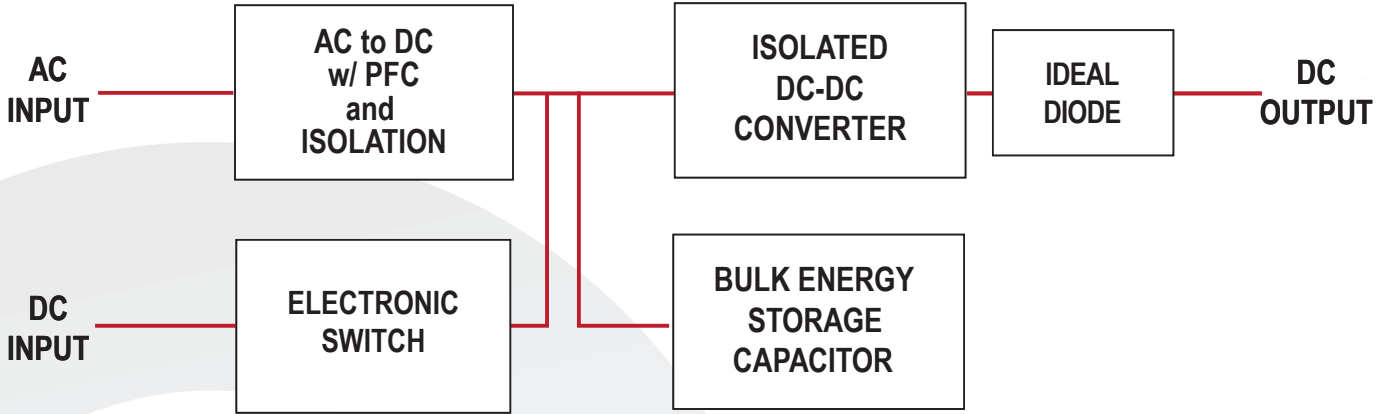
[Cables Page](#)

[Rackmount Kits](#)

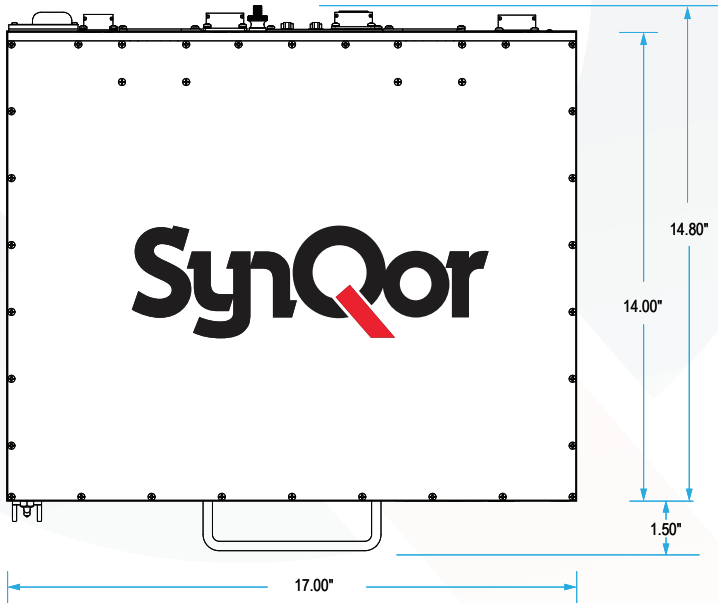
[Transit Cases](#)



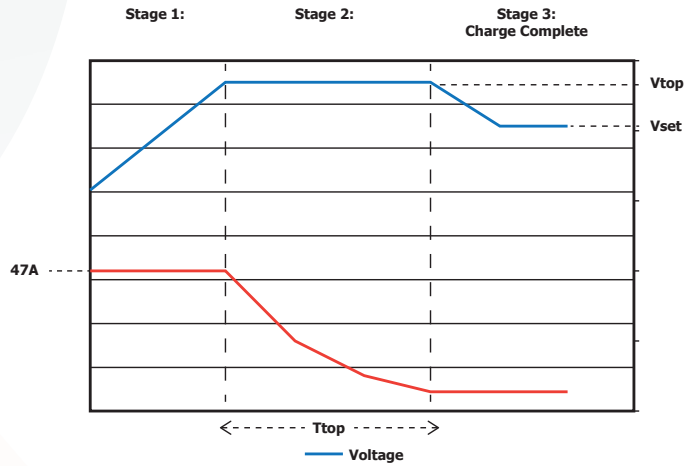
Block Diagram



Mechanical Diagram



Power Diagram



Lead-acid batteries charge with a Constant Current Constant Voltage charging profile, as shown in the figure above.