

# Product Fact Sheet



## Military Field-Grade Power Conditioner

<b>1250 W</b> Output Power	<b>80-265 Vrms</b> <b>47-65 Hz or 47-800 Hz</b> AC Input Voltage Options	<b>28 Vdc @ 45 A</b> DC Output Options	<b>with Constant Current</b> DC Output
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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
<b>MPC-1250-1S-</b>	<b>L:</b> 47 - 65 Hz <b>W:</b> 47-800 Hz	<b>C:</b> Constant Current Overload Protection	<b>28:</b> 28 V Output	<b>D00:</b> DC Input	<b>E:</b> Ethernet/SNMP	<b>00:</b> No CE Marking <b>CE:</b> 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](#)

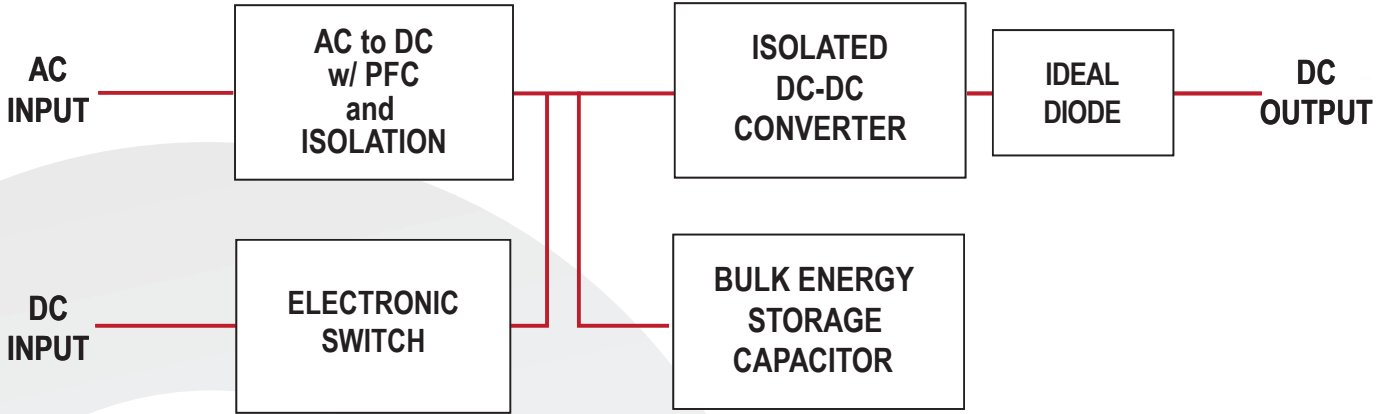
[Cables Page](#)

[Rackmount Kits](#)

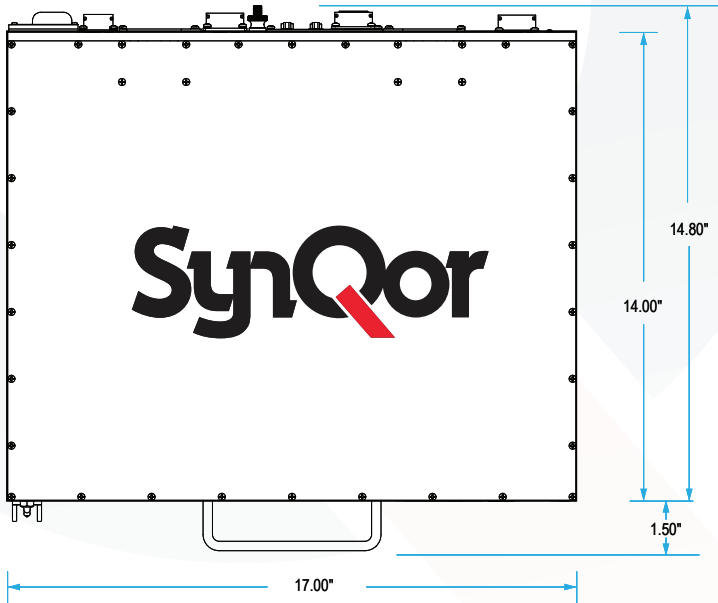
[Transit Cases](#)



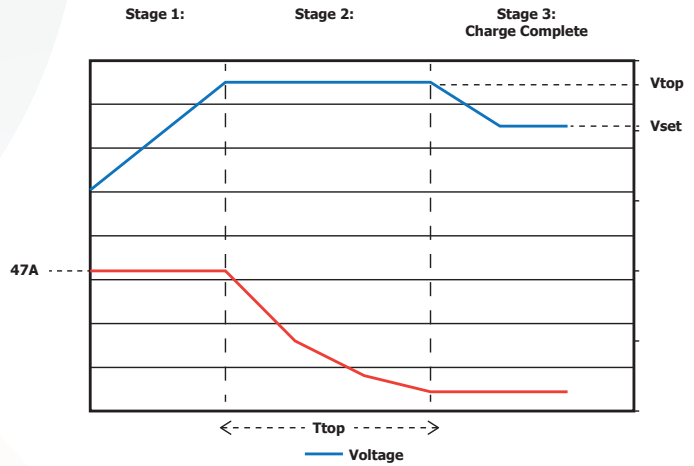
Block Diagram



Mechanical Diagram



Power Diagram



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