



This technical data sheet states the performance specifications and operating conditions for the Dynapulse™ 1224 and 3648 Battery Restoration / Conditioner / Charger Systems. The Dynapulse™ 1224 and 3648 are advanced battery restoration, conditioning, charging systems used for rapidly eliminating sulfation buildup in lead acid batteries utilizing our high-current, low-frequency method. For further information about the benefits, applications, operation, equipment configuration and service products of the Dynapulse™ 1224 and 3648 please refer to the User's Manual, Application Notes and Ordering Guide.



You can find all of the latest product material on the Global Energy Innovations' website.

Performance Specifications and Operating Conditions

Test Method	Dynapulse™ - Low Frequency Pulse.
Amp-Hour Capacity Range for Batteries Under Test	Range 1: 30 Ah to 60 Ah Range 2: Above 60 Ah Amp-hour measurement capabilities depend upon whether or not the battery impedance is within the measurement range of the device. Typically, the larger a battery's Ah capacity, the lower its impedance.
Condition Batteries on Float	Yes
Condition Batteries at Open-Circuit	Yes
Current	
Current Amplitude	Up to 250 Amps (Large Batteries), 125 Amps (Small Batteries)
Average Output Current	11 - 25 Amps (Adjustable)
Voltage	
DC Output	1224 Model: 12 or 24 VDC 3648 Model: 36 or 48 VDC
DC Voltage Limit	30 VDC for 12 Volt Setting 60 VDC for 24 Volt Setting
Safety Features	
Voltage Control	Regulation of transistor on-time pulse width limits voltage
End of Charge Control	9 Amp Qualifying Current & 4 Amp Minimum Current - Ends Charge
Timeout	8-Hour Timer (Shut Off)
Reverse Polarity Detection	Reverse battery indicator light
AC Power (Input)	
Input Voltage	115 VAC or 230 VAC ± 10%
Input Current	15 Amps at 115 VAC 8 Amps at 230 VAC
Input Frequency	47 - 63 Hz



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Environment Conditions	
Operating Temp Range	0° to 50° C
Storage	-20° to 70° C
Weight	50 lbs (22.6 kg)
Dimensions	12 x 12 x 19.5 in (30.5 x 30.5 x 49.5 mm)
Warranty	1-Year Limited Warranty
Replacement Parts	
Output Cable	5 Ft. (1.53 M), 6 Gauge DC Output Cable with Clamps
AC Wall Plug	High Current AC Wall Plug (15 AMP, 125 VAC)
Optional Accessories	
Premium Hard Carrying Protective Case	Heavy-duty carrying / transportation protective case
Service Support	
Instrument Training	Yes
Customer Support Website	Yes
Technical Support Hotline	Yes
Warranty Extension Available (1 and 2 Year)	Yes
Instrument Calibration Program	Yes

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