



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

<b>Test Method</b>	Dynapulse™ - Low Frequency Pulse.
<b>Amp-Hour Capacity Range for Batteries Under Test</b>	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
<b>Current</b>	
Current Amplitude	Up to 250 Amps (Large Batteries), 125 Amps (Small Batteries)
Average Output Current	11 - 25 Amps (Adjustable)
<b>Voltage</b>	
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
<b>Safety Features</b>	
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
<b>AC Power (Input)</b>	
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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<b>Environment Conditions</b>	
Operating Temp Range	0° to 50° C
Storage	-20° to 70° C
<b>Weight</b>	50 lbs (22.6 kg)
<b>Dimensions</b>	12 x 12 x 19.5 in (30.5 x 30.5 x 49.5 mm)
<b>Warranty</b>	1-Year Limited Warranty
<b>Replacement Parts</b>	
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)
<b>Optional Accessories</b>	
Premium Hard Carrying Protective Case	Heavy-duty carrying / transportation protective case
<b>Service Support</b>	
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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254 East Gish Road  
San Jose, California 95112 - USA  
tel +1 415 354 5688  
fax +1 415 354 5738  
www.globalei.com

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