

Advanced Energy Systems



Overview

Discover Advanced Energy Systems for stationary and mobile applications

Discover Advanced Energy Systems (AES) allow for equipment design and functionality improvements that deliver productivity gains through enhanced cycling, charge time and weight reductions in stationary and mobile applications.

Advanced Energy Systems set the standard with dramatic improvements in cycle life and charge efficiency, and combined with zero maintenance requirements, provide customers the greatest total cost of ownership savings in advanced battery technologies.

Applications

- Floor machines
- Renewable Energy
- Material Handling
- Aerial Work Platforms
- Marine
- Recreational Vehicles
- Electric Vehicles
- AGV
- Robotics

Benefits & Features

Asset Tracking

- Keep track of how, where and by whom the equipment is being used
- Performance and work cycle tracking with integrated AES data logging

TCO Improvements

- Increased life leads to reduced service and replacement costs
- Up to 30% reduction in energy used during charge
- Maintenance free
- Eliminates costs related to operational misdiagnosis with integrated AES diagnostic software

Productivity

- Reduced charge times with faster charging capability
- Opportunity charging with no negative affect on service life
- Increased energy density for longer run times
- High-sustained power reduces motor fatigue and increases motor controller performance

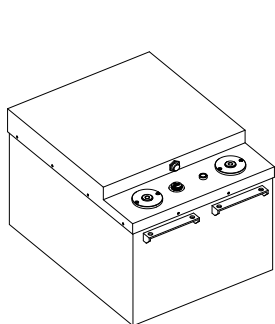
Environmentally Responsible

- Emission free
- Reduced annual energy consumption and CO₂ emissions for charging
- Discover AES are collected and recycled through Discover's global distribution network

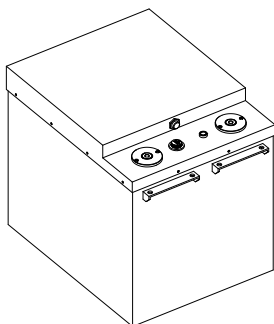
Product Range

Series and Model #	NOMINAL CAPACITY		NOMINAL ENERGY		MAXIMUM CURRENT	MECHANICAL CHARACTERISTICS								CASE
	AMP HOUR		WATT HOUR		CHARGE AND DISCHARGE	LENGTH		WIDTH		HEIGHT		WEIGHT		
	120 HR	1 HR	120 HR	1 HR	AMPS	IN	MM	IN	MM	IN	MM	LB	KG	
12 VOLT														
11-12-3800	300	300	3840	3840	150	18.2	461.5	13.3	338.5	10.9	276	112.4	51	Steel
11-12-4600	360	360	4608	4608	150	18.2	461.5	13.3	338.5	10.9	276	128.3	58.2	Steel
12-12-6900	540	540	6912	6912	150	18.2	461.5	13.3	338.5	14.8	375	175.9	79.8	Steel
13-12-2000	160	160	2048	2048	150	13.3	338.5	13.0	329.5	8.3	210	75.4	34.2	Steel
14-12-3000	240	240	3072	3072	150	13.3	338.5	13.0	329.5	10.9	276	96.6	43.8	Steel
15-12-1000	80	80	1024	1024	40	10.2	258	6.6	167	7.8	198	25.6	11.6	PP
24 VOLT														
11-24-3800	150	150	3840	3840	150	18.2	461.5	13.3	338.5	10.9	276	112.4	51	Steel
11-24-4600	180	180	4608	4608	150	18.2	461.5	13.3	338.5	10.9	276	128.3	58.2	Steel
12-24-6900	270	270	6912	6912	150	18.2	461.5	13.3	338.5	14.8	375	175.9	79.8	Steel
13-24-2000	80	80	2048	2048	150	13.3	338.5	13.0	329.5	8.3	210	75.4	34.2	Steel
14-24-3000	120	120	3072	3072	150	13.3	338.5	13.0	329.5	10.9	276	96.6	43.8	Steel
15-24-1000	40	40	1024	1024	40	10.2	258	6.6	167	7.8	198	25.6	11.6	PP
36 VOLT														
11-36-3800	100	100	3840	3840	150	18.2	461.5	13.3	338.5	10.9	276	112.4	51	Steel
11-36-4600	120	120	4608	4608	150	18.2	461.5	13.3	338.5	10.9	276	128.3	58.2	Steel
12-36-6900	180	180	6912	6912	150	18.2	461.5	13.3	338.5	14.8	375	175.9	79.8	Steel
48 VOLT														
11-48-3800	75	75	3840	3840	150	18.2	461.5	13.3	338.5	10.9	276	112.4	51	Steel
11-48-4600	90	90	4608	4608	150	18.2	461.5	13.3	338.5	10.9	276	128.3	58.2	Steel
12-48-6900	135	135	6912	6912	150	18.2	461.5	13.3	338.5	14.8	375	175.9	79.8	Steel
13-48-2000	40	40	2048	2048	150	13.3	338.5	13.0	329.5	8.3	210	75.4	34.2	Steel
14-48-3000	60	60	3072	3072	150	13.3	338.5	13.0	329.5	10.9	276	96.6	43.8	Steel
48 VOLT - RE														
41-48-4600	90	90	4608	4608	150	18.2	461.5	13.3	338.5	10.9	276	128.3	58.2	Steel
42-48-6900	135	135	6912	6912	150	18.2	461.5	13.3	338.5	14.8	375	175.9	79.8	Steel

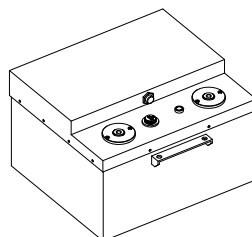
Drawings



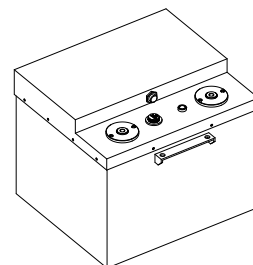
**11 Series
41 Series**



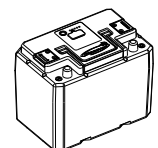
**12 Series
42 Series**



13 Series



14 Series



15 Series

Innovative Technology
Proven Expertise
Best in Class Solutions



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