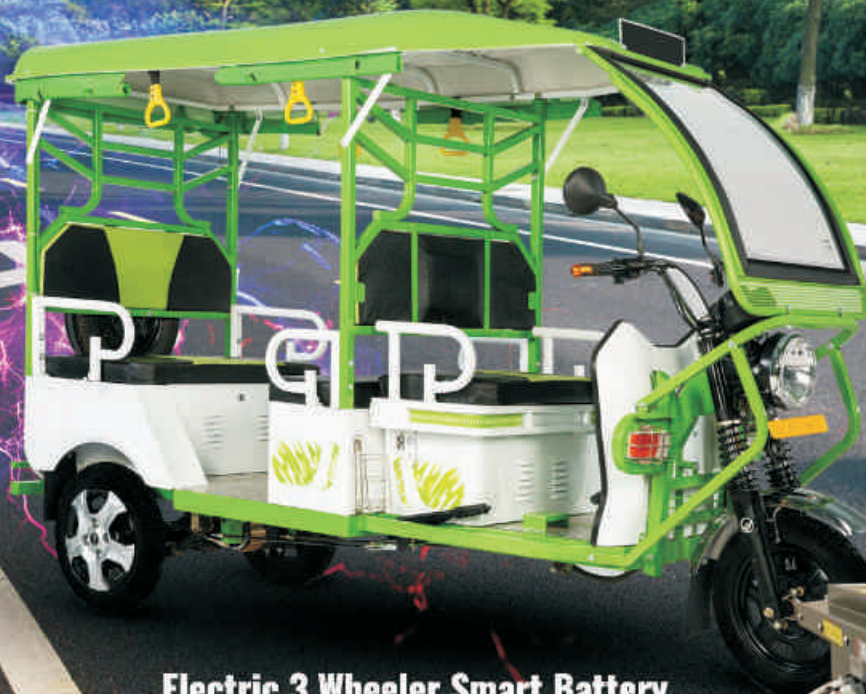


Give green a chance -
AMPTEK, the perfect choice!



**Electric 3 Wheeler Smart Battery
51.2V 100Ah**



Intelligent lithium battery, integrated with smart BMS and long life LFP cells, which can be used in various electric mobility applications.

Compliant with AIS-156 Amendment 3 Phase 2



High Power Density



No Memory Effect



80% Lighter than acid batteries



33% Less Bulky. Takes up a third less space



99% Efficient at converting charge energy to charge source




Low self-discharge rate





GLOBAL ELECTRIC

 9899094651



LITHIUM
ION BATTERY

LiFeP04
51.2V
100Ah

SPECIFICATIONS

Model	ATLP3W512100
Nominal Voltage (V) Rated	51.2V
Nominal Capacity (Ah)	100Ah
Total Energy (Kwh)	5.12KWh
Operating Voltage (V)	43.2V-58.4V
Standard Charge Current (A)	20A
Cont. Discharge Current (A)	30A
Peak Discharge Current (A)	75A (5 Seconds)
Operating Temperature (°C)	0°C -65°C
Output Humidity	0-90% Rh Non-Condensing
©IP Rating	IP67
Battery Weight	55 Kg
Dimension (L*W*H) ±3mm	371x584x260 mm
Self-Discharge	2.25%/month
Cycle Life	2000 at 80% of DOD@0.25C
Connector	AndersonSB75 with CAN
BMS Type	16S 80A (Smart BMS with communication)
Over Charge Protection	Yes @58.4V
Over Discharge Protection	Yes @43.2V
Thermal Protection	Yes @65°C with Audio & Visual Alarm
Over Charge Current Protection	Yes @60A
Over Discharge Current Protection	Yes @100A
Fuse/Circuit Breaker	Enabled
Regenerative Braking Protection	Yes
Short Circuit Protection	Yes
Data Logging Feature	Yes
Cell Balancing	Yes
Battery Warranty	3 Years





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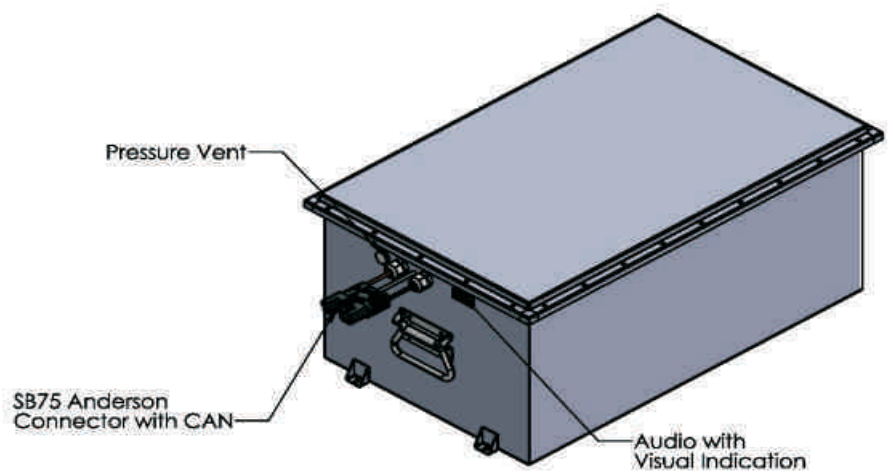
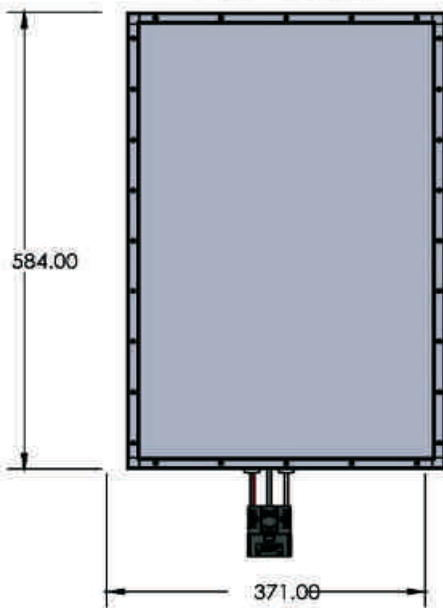


LITHIUM
ION BATTERY

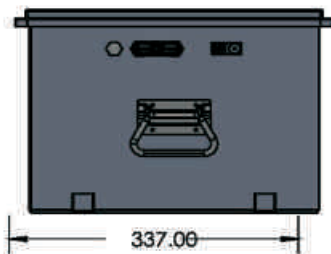
LiFeP04
51.2V
100Ah

PHYSICAL DRAWING

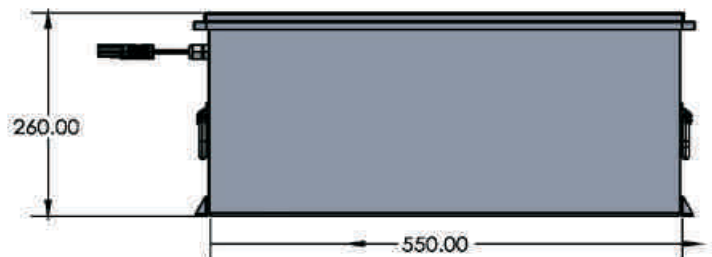
TOP VIEW



ISOMETRIC VIEW



FRONT VIEW



SIDE VIEW

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www.globalelectricvehiclescompany.com

SEALED RECHARGEABLE BATTERY AT12-28 [12V28Ah]



Product Features

Deep Cycle Long Life Series 400~600 Cycle Times @100%DOD

↑10% Capacity Improve the content and utilization of active substances. Direct Bar-welding.	Carbon Fiber	Rare-earth alloy
	↑15% Discharge Power Positive Carbon Fiber	↓50% Grid Corrosion Rare-earth patent alloy.

Product Applications



Physical Specification

Model	Dimensions (±2mm/inch)				Weight (±2%kg/lbs)	Terminal	Container
	Length	Width	Height	Total Height			
AT12-28	181/7.13	77/3.03	170/6.69	175/6.89	7.0/15.43	110	ABS UL94-HB (Optional: FR ABS UL94-V0)

Product Specifications

Nominal Voltage	Rated Capacity 25°C/77°F	Operating Temp. Range	Capacity Effected Temp	Capacity vs Storage Time
12V	28Ah 20hr Rate (1.80V/cell) 26Ah 10hr Rate (1.75V/cell) 24Ah 5hr Rate (1.75V/cell) 23Ah 2hr Rate (1.75V/cell)	Discharge: -15~50°C (5~122°F) Charge: 0~40°C (32~104°F) Storage: -15~40°C (5~104°F) Optimum: 25±3°C (77±5°F)	40°C (104°F): 106% 25°C (77°F): 100% 0°C (32°F): 85% -15°C (5°F): 72%	Three months : 90% Six months : 80% Nine months : 60%

Constant Current Discharge (A)@25°C (77°F)

	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	31.5	22.5	17.8	10.5	7.18	5.43	4.40	3.81	3.01	2.49	1.35
1.80V/cell	32.6	23.1	18.4	10.8	7.34	5.60	4.58	3.95	3.09	2.55	1.40
1.75V/cell	33.5	24.0	19.1	11.5	7.73	5.86	4.87	4.15	3.19	2.60	1.43
1.70V/cell	34.4	24.6	19.7	11.7	7.89	6.00	4.91	4.23	3.26	2.67	1.46
1.68V/cell	35.1	25.5	20.4	11.8	8.00	6.16	5.06	4.32	3.34	2.72	1.47
1.60V/cell	36.1	26.1	20.8	12.2	8.29	6.33	5.13	4.43	3.42	2.81	1.48

Constant Power Discharge (W/cell)@25°C (77°F)

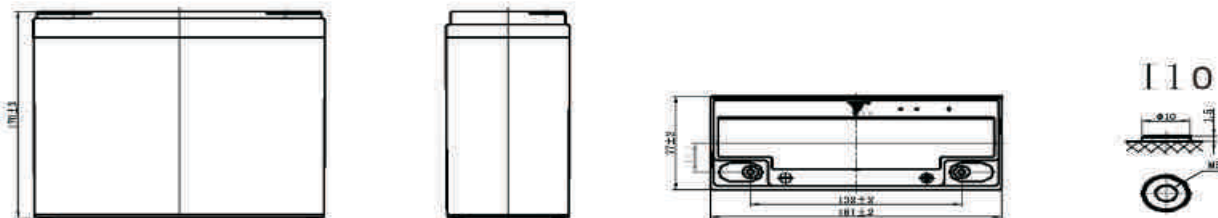
F.V/Time		45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	60.5	43.5	34.6	20.9	14.3	10.9	8.82	7.59	5.98	4.92	2.66
1.80V/cell	62.3	44.5	35.5	21.5	14.6	11.2	9.12	7.85	6.12	5.03	2.74
1.75V/cell	63.8	46.2	36.8	22.8	15.4	11.7	9.65	8.20	6.29	5.13	2.78
1.70V/cell	65.1	47.0	37.8	23.0	15.6	11.9	9.70	8.31	6.40	5.23	2.83
1.68V/cell	66.0	48.2	38.9	23.1	15.7	12.1	9.9	8.42	6.48	5.28	2.84
1.60V/cell	67.2	49.1	39.3	23.7	16.1	12.3	10.0	8.56	6.59	5.40	2.85



SEALED RECHARGEABLE BATTERY AT12-28 [12V28Ah]

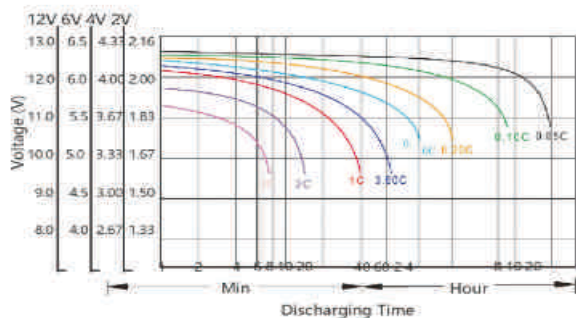


Battery Dimensions (mm)

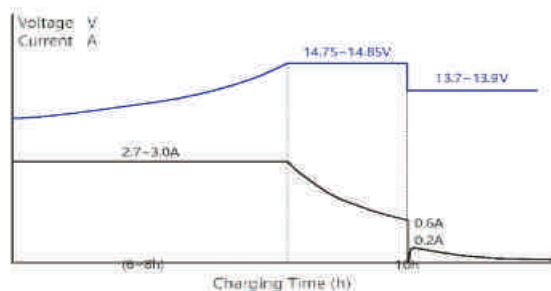


Electrical Characteristics

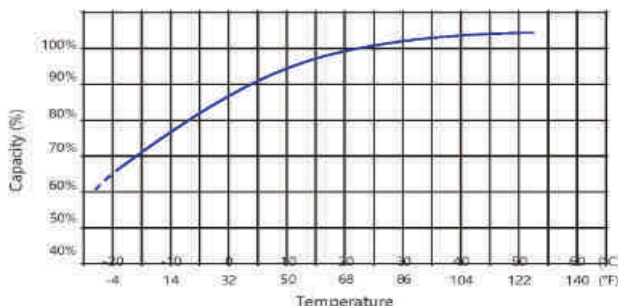
Discharging Characteristics@25°C(77°F)



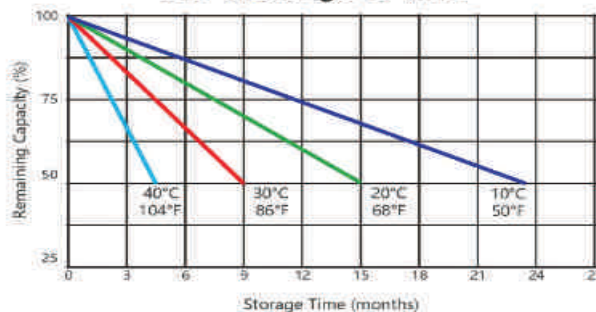
Charging Characteristics@25°C(77°F)



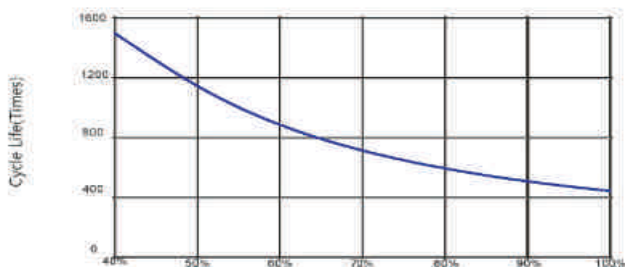
Capacity vs Temperature



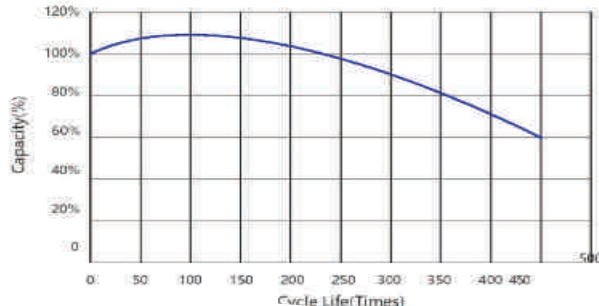
Self-discharge vs Time



Cycle Life vs Depth of Discharge@25°C(77°F)



Cycle Life vs Remaining Capacity@25°C(77°F)



Usage and Maintenance

Limited Current	Limited Voltage	Limited Voltage
Limited current: $\leq 0.2C/A$	14.75-14.85V@25°C(77°F) Temp.Coefficient: -24mV/°C	13.7-13.9V@25°C(77°F) Temp.Coefficient: -18mV/°C

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Globalelectricvehiclescompany@gmail.com

www.globalelectricvehiclescompany.com



GLOBAL ELECTRIC



RECHARGEABLE SEALED LEAD ACID BATTERY 12V32AH (48V32AH)

Super Energy Density up to 60WH/KG.

Direct Case-Welding Technology is applied to connect each cell, which makes the battery has lower internal resistance.1.8C super large discharge current Up to 30 minutes.

Super long cycle life. 50% Depth of discharge is up to 1500 cycles (at 25°C) .

Super performance on High/Low temperature area .

Super fast charging. 30minutes fast charge into 70% nominal Capacity.

Product Application: Electric Scooter

When combining four sets of 12V 32AH batteries in series, you can create a configuration that results in a 48V 32AH setup for an electric scooter.

COMPARISON BETWEEN AMPTEK SUPER GRAPHENE SERIES AND STANDARD BATTERY

TESTING ITEM	STANDARD BATTERY	SUPER GRAPHENE 12V32AH/20HR	COMPARISON
INITIAL CAPACITY, FOR THE FIRST 3 CYCLES @ 2hr	20.2AH	24AH	18.8% IMPROVED
INITIAL CAPACITY, FOR THE FIRST 20 CYCLES @ 20hr	22AH	32AH	45% IMPROVED
MILEAGE PER FULLY CHARGE @600w MOTOR	60KM	135-142KM	75KM MORE
MILEAGE PER FULLY CHARGE @1500w MOTOR	45KM	88KM	43KM MORE
FAST CHARGING	NOT AVAILABLE	4-10A FAST CHARGING	FAST CHARGE
DISCHARGE TIME @ END-VOLTAGE : 12V	65 MINUTES	99 MINUTES	38% IMPROVED
WATER LOSS RATE	0.1 GRAM / CYCLE	0.06 GRAM / CYCLE	40% DECREASED
DISCHARGE TIME @ -15 °C	94 MINUTES	112 MINUTES	19% IMPROVED
CYCLE LIFE @ 50% DOD@25 °C	500 CYCLES	1500 CYCLES	200% IMPROVED

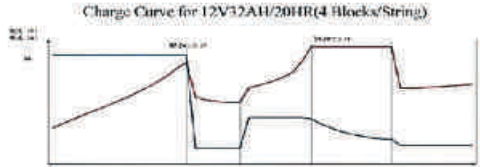
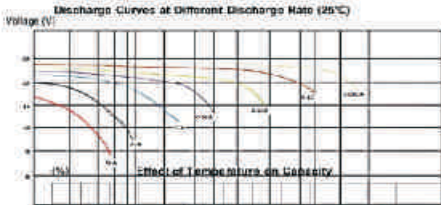
SPECIFICATION

Nominal Voltage (V)	12V
Open Circuit Voltage (V/Block)	13.1V - 13.45V
Number of Cells (Per Block)	6 Cells
Rated Capacity (Ah, 25°C)	24Ah 26Ah 27Ah 30Ah 32Ah
Nominal Weight (Kgs)	Approx.7.2±0.1 Kgs
Dimension (L X W X H, Total Height, mm)	(181mm±0.5) X (78mm±0.5) X (172mm±0.5), (172mm±0.5)
Container Material	Enhanced ABS
Charge Voltage	13.50V - 13.80V 14.00V - 14.80V
Maximum Discharge Current (A)	150A (5s) 4-10A
Working Temperature(°C)	-20°C to 50°C
Storage Temperature(°C)	20°C to 30°C -20°C to 50°C
Operation (maximum):	-20°C to 50°C
Operation (recommended):	20°C to 30°C
	-20°C to 50°C



12V32AH SUPER GRAPHENE

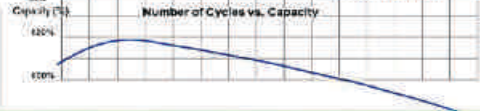
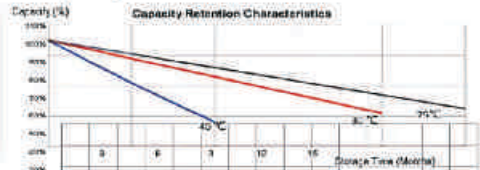
12V 32Ah(20hr) GRAPHENE BATTERY



Phase 1: Constant charge current = 6A-10A until charge voltage is probably reach up to 17.2V-17.4V, then hold the voltage.

Phase 2: Constant voltage 17.2V-17.4V until charge current 2A.

Phase 3: When charge current drops to 0.5A then hold the voltage for 10minutes. Temperature compensation rate is 2.5-4.0mV/°C/Cell.



Cycle life vs DOD

Cycle (Days)	100%	80%	60%	40%	20%
1500					
1200					
900					

RECOMMENDED SETTING PARAMETERS

Item	4RV Battery Bank	60V Battery Bank	72V Battery Bank
Max. Charge Voltage (V)	38.6V-39V	73.3V-73.7V	88.0V-88.4V
Float Charge Voltage (V)	34.8V-35.2V	68.6V-69.0V	82.3V-82.7V
Charge Current (A)	4-10A	4-10A	4-10A
Shifting Current (A)	0.55A-0.6A	0.55A-0.6A	0.55A-0.6A
Temperature Compensation Coefficient (mV/°C/Cell)	2.5~4.0mV/°C/Cell	2.5~4.0mV/°C/Cell	2.5~4.0mV/°C/Cell
Low-voltage Protection (V)	42V±0.5V	52.5V±0.5V	63V±0.5V
Limited Current (A)	≤25A	≤25A	≤25A
Turn-on Lock Current (A)	≤0.15A	≤0.15A	≤0.15A
Average Current (A)	≤10A	≤10A	≤10A
Electric Motor Power (W)	≤450W	≤600W	≤650W

* All the data and technical curves are for customer's reference only. This information is subject to change without any prior notice. For More Information, please contact.



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