

## RECHARGEABLE SEALED LEAD ACID BATTERY 12V32AH (48V32AH)



Super Energy Density up to 60WH/KG.

Direct Cast-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. 30mintues fast charge into 70% nominal Capacity.

**Product Application: Electric Scooter** 

SPECIFICATION

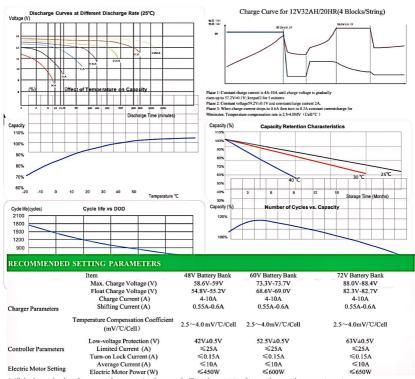
When combining four sets of 12V 32AH batteries in series, you can create a configuration that results in a 48V 32AH setup for an electric scooter.

OMPARISON BETWEEN AMPTEK SUI	PER 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	90 MINUTES	38% IMPROVED
WATER LOSS RATE	0.1 GRAM/CYCLE	0.06 GRAM/ CYCLE	40% DECREASED
DISCHARGE TIME @ -15 ℃	94 MINUTES	112 MINUTES	19% IMPROVED
CYCLE LIFE @ 50% DOD@25 ℃	500 CYCLES	1500 CYCLES	200% IMPROVED

STECHTICATION.				
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)	2h rate (to 1.75V/Cell)	24Ah		
	3h rate (to 1.75V/Cell)	26Ah		
	5h rate (to 1.80V/Cell)	27Ah		
	10h rate (to 1.80V/Cell)	30Ah		
	20h rate (to 1.85V/Cell)	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	Float (V/Block)	13.50V - 13.80V		
	Cycle (V/Block)	14.60V - 14.80V		
Maximum Discharge Current (A)		150A (5s)		
Charge Current (A)		4-10A		
Working Temperature(°C)		Operation (maximum):	-20°C to 50°C	
		Operation (recommended):	20°C to 30°C	
Storage Temperature(°C)		-20°C to 50°C		



## 12V32AH SUPER GRAPHENE



<sup>\*</sup> 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:

For More Information, please contact: FUSION POWER SYSTEMS

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