

Helpline ☎ 9020 121 121 / 7594 970 060



Lithium Ion
Battery Pack

LiFePO₄

Four Wheeler
Electric Vehicles



Powered by Lithium Ion Cells

Hykon 4 Series for Material Handling Equipments

Hykon 4 Series battery's compact size and high energy density make it possible to deliver 100% efficiency and performance comparing to Lead Acid Batteries. Lithium battery is more compact in size. One of the major applications is of powering material handling equipments like Fork lifts, Scissor Lifts & Stackers. Hykon 4 Series offers a unique combination of float charging capability and high cycling performance which ensures longer life.

Salient Features

- Eco friendly
- Quick charge
- Plug and Play Battery
- Built in BMS for protection
- No maintenance
- Customizable enclosure
- 100% charge/discharge efficiency
- Digital Display available
- IP 65 Complaint
- Temperature Cutoff
- Mechanical Locking Arrangement
- Aluminium Cabinet

Technical Specification

Model	HY-LFP-24150T	HY-LFP-24180T	HY-LFP-24225T
Nominal Capacity @ 0.5C Discharge (25°C)	150AH	180AH	225AH
Li-ion Chemistry	Lithium Ferro Phosphate (LFP)		
Nominal voltage(3.2V/Cell)	25.6V		
Standard Charge Voltage(3.6V/Cell)	28.8V		
Max. Charge Voltage(3.65V/Cell)	29.2V		
Standard charge Current(0.2C)	30A	36A	45A
Max. charge Current	150A	150A	180A
Charge method	CVCC		
Cut off Voltage(2.8V/Cell)	22.4V		
Standard discharge Current(0.5C)*	75A	90A	112A
Max. discharge current*	150A	240A	180A
Cooling Method	Natural Cooling		
Termination	Anderson Connector		
Cycle Life @ 80 % DOD	>2000 Cycles		
Features (Optional)	Fuel Gauges for the measuring the SOC of battery, Battery Voltmeter		
Protections (BMS)	Over Charge, Under Voltage, Over Temperature, Over Current, Short circuit.		
Operating temperature	Charge:	0 ~45°C	
	Discharge:	-20 ~65°C	
Storage temperature	-20 ~45°C		
Weight (Approx)	50 kg	56 kg	60 kg
Dimension (LWH) mm	640 X 180 X 540	485 X 445 X 285	640 X 180 X 540
Casing	Metal Cabinet	Aluminium Cabinet	Metal Cabinet

* Charge & Discharge current will vary depends on BMS capacity and specification.

* BMS will vary depends on Application.

* LFP Battery pack can be made as per the customised dimension and specification.



SOC Indicator



BMS (Battery Management System)



LiFePO4 Cells



Fuel Gauge

Hykon 4 Series for Cars & Utility Vehicles

Hykon 4 Series battery used for Cars & Utility vehicles provides life of 300000 kms with a speed of minimum 50 km/hr. Our smart battery management system (BMS) is specially designed for Lithium Battery Packs to enhance efficiency and increase performance like never before. This communicative BMS monitors cell current and voltage fluctuations in battery pack. It also displays all parameters and prompts to take required action as soon as possible.

Salient Features

- Eco friendly
- Quick charge
- Plug and Play Battery
- Built in BMS for protection
- Cost effective
- Customizable enclosure
- 100% charge/discharge efficiency
- Digital Display available

Technical Specification

Model	HY-LFP-48200	HY-LFP-48300
Nominal Capacity @ 0.5C Discharge (25°C)	200AH	300AH
Li-ion Chemistry	Lithium Ferro Phosphate (LFP)	
Nominal voltage(3.2V/Cell)	48V	
Standard Charge Voltage(3.6V/Cell)	54V	
Max. Charge Voltage(3.65V/Cell)	54.7V	
Standard charge Current(0.2C)	40A	60A
Rapid. charge Current(1C)*	200A	250A
Charge method	CVCC	
Cut off Voltage(2.5V/Cell)	37.5V	
Standard discharge Current(0.5C)*	100A	150A
Continuous discharge current (1C)*	200A	250A
Max Continuous discharge current	250A	
Cooling Method	Natural Cooling	
Termination	Anderson Connectors	
Cycle Life @ 80 % DOD	>2000 Cycles	
Features (Optional)	Fuel Gauges for the measuring the SOC of battery, Battery Voltmeter, CAN/RS485 Communication	
Protections (BMS)	Over Charge, Under Voltage, Over Temperature, Over Current, Short circuit.	
Operating temperature	Charge:	0 ~45°C
	Discharge:	-20 ~65°C
Storage temperature	-20 ~45°C	
Weight (Approx)	96 kg	140 kg
Dimension(LWH)mm (customizable)	550 X 390 X 390	815 X 445 X 435
Casing	Metal Cabinet	Al. Cabinet

* Charge & Discharge current will vary depends on BMS capacity and specification.

* BMS will vary depends on Application.

* LFP Battery pack can be made as per the customised dimension and specification



SOC Indicator



BMS (Battery Management System)



LiFePO4 Cells



Fuel Gauge

Hykon 4 Series for Automatic Guided Vehicles (AGV)

Hykon 4 Series battery for AGV comes with a unique design that can fit the lower portion of the vehicle. It ensures in minimum lifting power required for logistic activities. It also allows fast charging up to 3 times the battery capacity. It also has lesser self discharge the range of mAs. It is also cost effective in case of maintenance, comparing with other batteries. It has wide operating temperature range which allows them to be used in extreme Industrial conditions.

Salient Features

- Eco friendly
- Quick charge
- Plug and Play Battery
- Built in BMS for protection
- Compact design
- Customizable enclosure
- 100% charge/discharge efficiency
- Digital Display available

Technical Specification

Model	HY-LFP-24200	HY-LFP-48200A
Nominal Capacity @ 0.5C Discharge (25°C)	200 AH	
Li-ion Chemistry	Lithium Ferro Phosphate (LFP)	
Nominal voltage(3.2V/Cell)	25.6V	48V
Standard Charge Voltage(3.6V/Cell)	28.8V	54V
Max. Charge Voltage(3.65V/Cell)	29.2V	54.7V
Standard charge Current(0.2C)	40A	
Max. charge Current	180A	
Charge method	CVCC	
Cut off Voltage(2.8V/Cell)	22.4V	37.5V
Standard discharge Current(0.5C)*	100A	
Max. discharge current*	180A	
Cooling Method	Natural Cooling	
Termination	Anderson Connector	
Cycle Life @ 80 % DOD	>2000 Cycles	
Features (Optional)	Fuel Gauges for the measuring the SOC of battery, Battery Voltmeter	
Protections (BMS)	Over Charge, Under Voltage, Over Temperature, Over Current, Short circuit.	
Operating temperature	Charge:	0 ~45°C
	Discharge:	-20 ~65°C
Storage temperature	-20 ~45°C	
Weight (Approx)	55 kg	97 kg
Dimension (LWH) mm	445 X 352 X 360	815 X 627 X 230
Casing	Aluminium Cabinet	

* Charge & Discharge current will vary depends on BMS capacity and specification.

* BMS will vary depends on Application.

* LFP Battery pack can be made as per the customised dimension and specification

Helpline



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