

FL48420 Forklift Lithium Battery

Long Cycle Life: provides up to 20 times longer cycle life and 5 times longer float/service life than lead acid, battery help to minimize replacement costs and reduce total cost of ownership.

Smaller Footprint: better gravimetric/volumetric specific energy up to 3 times compare with lead acid battery.

More Available Energy: deliver twice energy of the lead acid battery, when discharged with heavy load.

Superior Safety: build-in BMS——eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation with safe lithium iron phosphate chemistry.

Fully compatible: design to replace VRLA battery, compatible with conventional lead acid powered system.

ע Technical Parameters

Nominal Voltage (V)	51.2
Nominal Capacity (Ah)	420
Total Energy (kWh)	21.50
End Charge Voltage (V)	58.4
Discharge Cut-off Voltage (V)	40
Float Charge Voltage (V)	55.2
Standard Charge/Discharge Current (A)	280 CH / 350 DCH
Max. Charge/Discharge Current (A)	560 CH / 700 DCH
Peak Output Current (A)	840 @1s
Lithium Chemistry	LiFePO ₄
Cycle Life	3500
Design Life	10 years

Mechinical Specifications

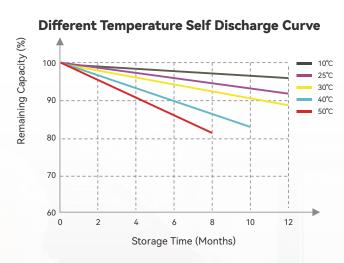
Dimension (mm)	W970 * D630 * H571
Weight (kg)	Approx. 300
Communication	CAN
Ingress Rating	IP 65
Safety Standards	UN38.3, CE



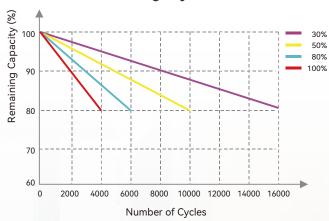
צ Environmental Specifications

Storage Temperature (°C)	-20 ~ 45 (1 month)
Operating Temperature Charge (°C)	-20 ~ 55
Operating Temperature Discharge (°C)	-20 ~ 55
Operating Relative Humidity	5 ~ 95%

☑ Operating Performance



Different DOD Discharge Cycle Life Curve (0.5C)



Notes

Battery should be kept in a dry and ventilated place, avoid direct contact with corrosive substances, also away from sources of fire and heat. Keep the SOC of the battery above 50% if you need to store it for an extended long period. It should be refresh charged every 3 months regularly and SOC should be maintained at about 50% if battery will be stored for a long term.

