

# FL24560

## Forklift Lithium Battery



FL24560

**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.

### Technical Parameters

Nominal Voltage (V)	25.6
Nominal Capacity (Ah)	560
Total Energy (kWh)	14.34
End Charge Voltage (V)	29.2
Discharge Cut-off Voltage (V)	20
Float Charge Voltage (V)	27.6
Standard Charge/Discharge Current (A)	280 CH / 350 DCH
Max. Charge/Discharge Current (A)	350 CH / 500 DCH
Peak Output Current (A)	600 @1s
Lithium Chemistry	LiFePO <sub>4</sub>
Cycle Life	3500
Design Life	10 years

### Mechanical Specifications

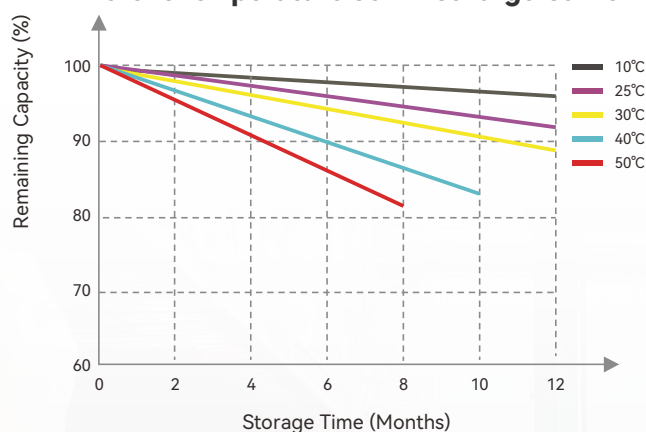
Dimension (mm)	W779 * D325 * H571
Weight (kg)	Approx. 385
Communication	CAN
Ingress Rating	IP 65
Safety Standards	UN38.3, CE

## ▸ Environmental Specifications

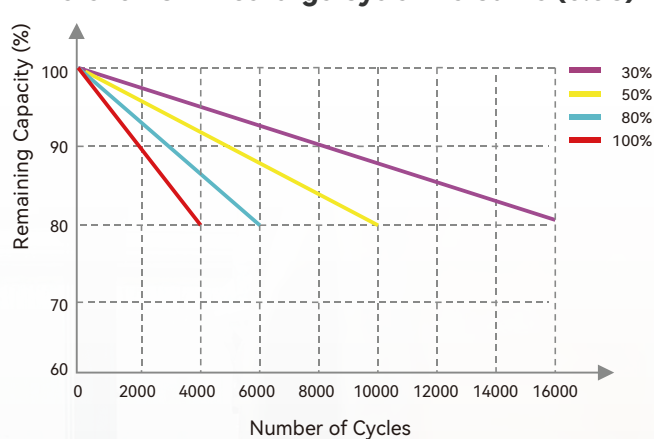
Storage Temperature (°C)	-20 ~ 45 (1 month)
Operating Temperature Charge (°C)	-20 ~ 55
Operating Temperature Discharge (°C)	-20 ~ 55
Operating Relative Humidity	5 ~ 95%

## ▸ Operating Performance

**Different Temperature Self Discharge Curve**



**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.