

F06 SERIES

Sheet Metal Version

Lithium Iron Phosphate Battery Module



Product Introduction

The product features a sheet metal casing design and utilizes high-quality lithium iron phosphate (LiFePO4) cells, equipped with an intelligent BMS (Battery Management System). It can quickly replace lead-acid or gel batteries without requiring any changes to the original installation structure. It boasts strong durability, a long cycle life, and a wide operating temperature range.



Bluetooth configuration,
monitoring battery status

BMS

Built-in BMS board with comprehensive
protection logic

LCD

Optional display function

Series & Parallel

Supports series or parallel connection



Ultra-low self-discharge rate,
no need for frequent floating charge



Model: WKC		F06-1280	F06-2560	F06-4020	F06-2560
Cell type		Lithium Iron Phosphate			
Nominal voltage (V)		12.8			25.6
Nominal capacity (Ah)		100	200	314	100
Nominal energy (Wh)		1280	2560	4020	2560
Operating voltage range (V)		10V~14.6V			20V~29.2V
Charging cut-off voltage (V)		14.6			29.2
Discharging cut-off voltage (V)		10			20
Standard charging current (A)		20	40	60	20
Standard discharge current (A)		50	100	100	50
Maximum continuous charging current (A)		50	100	100	50
Maximum continuous discharge current (A)		100	200	200	100
Cycle life		4000 cycles (Standard charge/discharge current, 90% DOD, 25±5°C)		5000 cycles (Standard charge/discharge current, 90% DOD, 25±5°C)	4000 cycles (Standard charge/discharge current, 90% DOD, 25±5°C)
Dimensions	Length(mm)	330	545	430	545
	Width(mm)	185	200	220	200
	Height(mm)	190	215	290	215
Weight (kg)		≈12.5Kg	≈23Kg	≈32Kg	≈23Kg
Battery shell		Sheet Metal			
Series and parallel use		Supports up to 4 series connections			
Terminals		M8			
Allowable humidity range (%RH)		15%~85%			
Storage ambient temperature (°C)		-20~45 (recommended 10~35)			
Charging ambient temperature (°C)		0~50 (recommended 10~35)			
Discharging ambient temperature (°C)		-10~60 (recommended 10~35)			
Altitude (m)		<3000			
Cooling method		Natural heat dissipation			
Operating conditions		Indoor			
Protection method		Overvoltage, undervoltage, pressure difference, overtemperature, capacity, overcurrent, short circuit, etc.			
Certificate		UN38.3, MSDS, CE			

Note: The above data is for reference only and is subject to change without prior notice. For special customization requirements, please contact the equipment manufacturer.