

IPF Series



INTRODUCTION

- LiFePO4 (Lithium Iron phosphate) battery.
- Intelligent lithium iron phosphate battery module realizes an independent adjustment of charging voltage, constant current charging, constant voltage discharge and other working modes.
- Product could be mixed with lead-acid batteries, old batteries and different brands of lithium batteries.
- Design life at 25°C (77°F) : 12 years.
- Applications: 5G macro station, 3G/4G base station, Data center, Small UPS and Peak shaving application, etc.

TECHNICAL CHARACTERISTICS

- Parallel power expansion: Maximum power (P) of N*IPFs connected in parallel can reach 48 kW.
- Intelligent software anti-theft reducing the risk of site battery theft.
- Hybrid use: IPF can be connected in parallel with old lithium batteries or lead-acid batteries.
- Maintenance-free: saving the battery operation and maintenance costs and reducing the frequency of site visits.
- Communication Interface: CAN and RS485.
- Wide operating voltage range: 36-60Vdc.
- Operating modes: Self-managed constant voltage discharge mode, Set constant voltage discharge mode, and Battery characteristic discharge mode.

GENERAL SPECIFICATION

Type	Dimension (mm)			Battery Output Terminal	Weight (kg)
	Width (No ear)	Height	Depth	Φ	
IP48100	440.0	131.0	401.0	M5	40.0

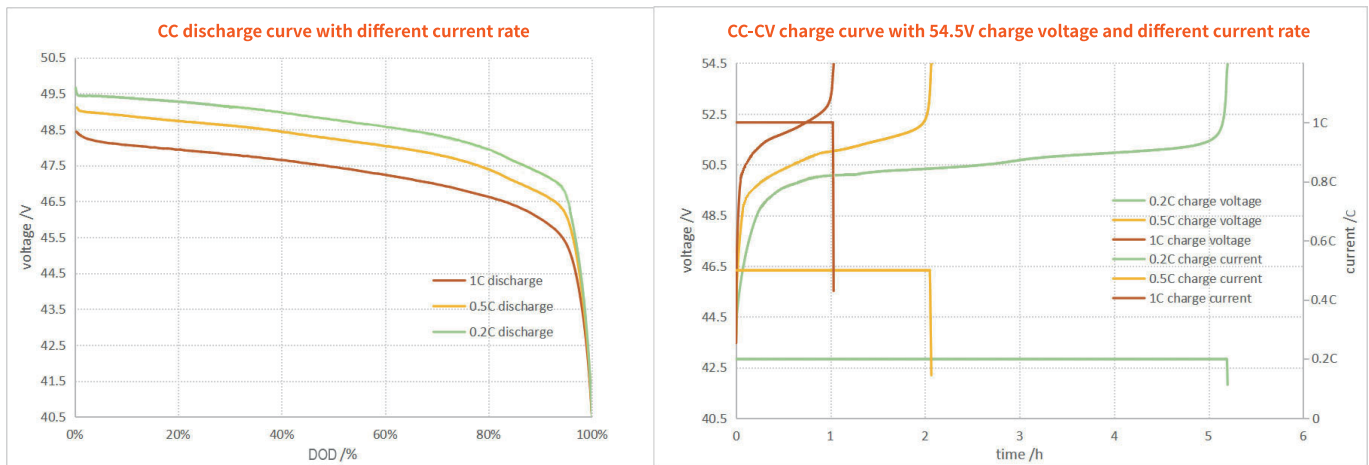
Constant Current Discharge Characteristics /for one module (25°C,77°F)

End voltage	Current(A)	0.1C	0.2C	0.33C	0.5C	0.8C	1.0C
	Time	Hours					
46.5V		9.73	4.85	2.93	1.90	1.15	0.90
45.0V		9.92	4.96	3.00	1.96	1.20	0.93
43.5V		10.05	5.03	3.05	2.00	1.23	0.96
42.0V		10.13	5.07	3.08	2.02	1.25	0.98
40.5V		10.18	5.10	3.09	2.03	1.26	1.00

Discharge Data with Constant Power /for one module (25°C,77°F)

End voltage	Power	480W	960W	1580W	2400W	3800W	4400W
	Time	Hours					
46.5V		9.83	4.89	2.92	1.85	1.05	0.82
45.0V		10.02	4.99	3.01	1.91	1.11	0.86
43.5V		10.13	5.05	3.05	1.95	1.15	0.90
42.0V		10.21	5.09	3.08	1.98	1.18	0.93
40.5V		10.25	5.12	3.09	2.00	1.20	0.95

Performance Curves



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Any datasheet issued previously is invalid when new version releases.



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