

Lithium-Ion Battery | OBUK-4850



Introduction

OBUK-4850 is a 50 Ah rechargeable lithium iron phosphate battery designed for outdoor pole/wall mounted telecom power systems and equipment. It is featured with high energy density, redundant safety design, long cycle life, light weight, easy to install, maintenance-free and extensive monitoring and controlling capabilities.

Key Features:

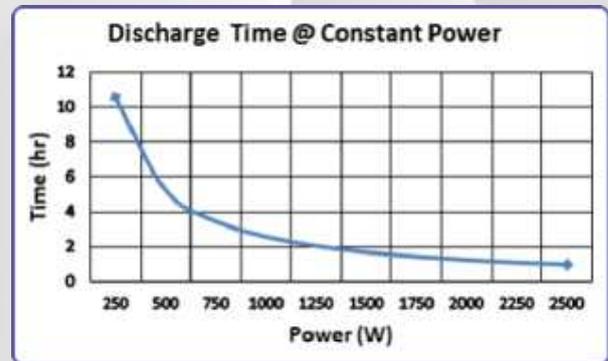
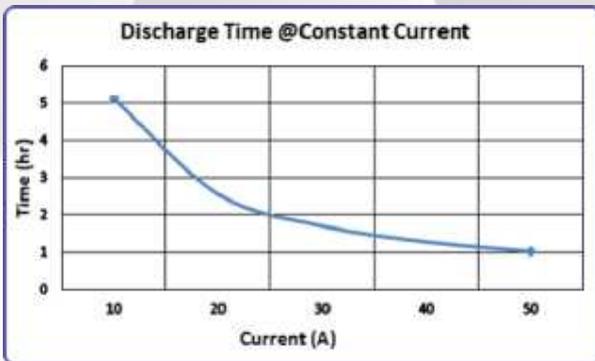
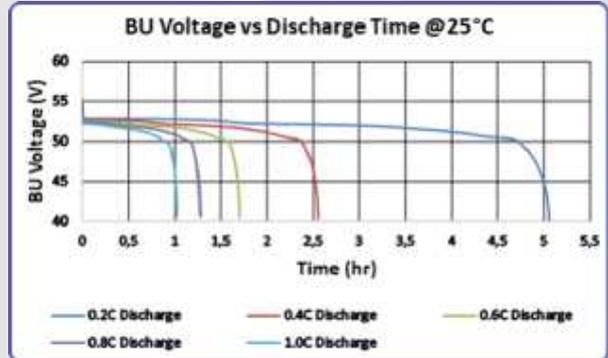
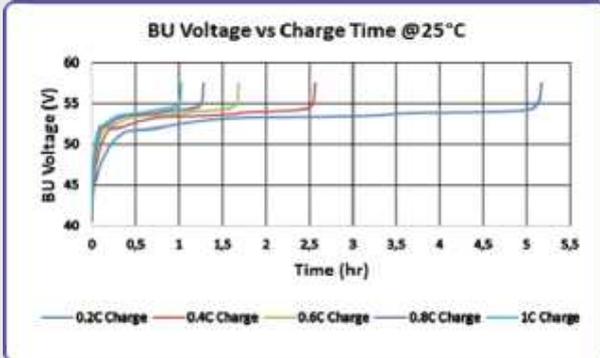
- Outdoor pole/wall mounted enclosure, outdoor environment proof
- Easy expansion, supporting parallel connection of batteries
- Long cycle life and long service life
- Modular fan-free design
- Universal installation kits, easy to install
- Remote real-time monitoring of battery data
- Safety and green, environment friendly

TECHNICAL SPECIFICATION

Lithium chemistry	LFP (Lithium Iron Phosphate)	
Nominal voltage	51.2 V	
Rated capacity	50 Ah (@ 25°C)	
Rated energy	2650 Wh	
Cycle life	4000 (times @ 25°C , 80 % DOD)	
Calendar life	15 years	
Communication interface	RS485	
Enclosure Material	Sheet metal body with die-cast Aluminum cover	
Dimensions	H421 W320 D140 mm (Enclosure body, see drawing)	
Protection level	IP65	
Weight	27.5 kg	
Maximum charge voltage	57.6 V	
Charge current limit function	10 A	
Standard charge current	25 A	
Maximum discharge current	50 A	
End of discharge voltage	40 V	
Charge temperature	-40 °C to +55 °C (Including heater)	
Discharge temperature	-20 °C to +55 °C	
Storage temperature	-20 °C to +55 °C	
Certifications	Safety	IEC/EN 62619
	EMC	ETSI EN 300 386 (< 3 m cables)
	CE	RoHS Directive 2011/65/EU
	Transport	UN38.3

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Battery performance



SOC (%)	Voltage (V)				
	10A	20A	30A	40A	50A
100	54.90	54.88	54.76	54.67	53.84
90	52.80	52.51	52.23	51.93	51.56
80	52.73	52.43	52.14	51.83	51.44
70	52.52	52.22	51.93	51.61	51.25
60	52.17	51.94	51.70	51.43	51.08
50	52.07	51.83	51.57	51.28	50.92
40	51.96	51.68	51.41	51.10	50.73
30	51.66	51.38	51.10	50.78	50.43
20	51.19	50.92	50.65	50.36	49.99
10	50.46	50.21	49.96	49.64	49.33
0	39.99	40.00	40.00	39.99	40.00

Battery Voltage (V)	Discharge Time (min)				
	10A	20A	30A	40A	50A
50.0	286.0	140.0	89.0	64.0	48.0
49.0	291.6	145.3	96.5	71.7	56.6
48.0	295.9	147.5	98.0	73.2	58.3
47.0	298.7	149.2	99.3	74.2	59.1
46.0	301.3	150.4	100.1	74.9	59.7
45.0	303.0	151.3	100.8	75.5	60.2
44.0	304.5	152.1	101.3	75.9	60.6
43.0	305.5	152.7	101.8	76.2	60.9
42.0	306.1	153.0	102.0	76.5	61.2
41.0	306.6	153.3	102.3	76.6	61.3
40.0	307.0	153.5	102.4	76.7	61.4

Dimensions

