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# Various battery systems

with "Cell 3.2V (Li-FePo4)"

# System Specification

Small-sized Radio Relay Stations(Pole)

[48V 5~25Ah]

Model Name	LFPS-4805	LFPS-4810	LFPS-4820	LFPM-4825
Energy [KWh]	0.24	0.48	0.96	1.2
Rated Capacity	5Ah (15S1P) (@0.2C, Discharge 5hr)	10Ah (15S1P) (@0.2C, Discharge 5hr)	20Ah (15S1P) (@0.2C, Discharge 5hr)	25Ah (15S1P) (@0.2C, Discharge 5hr)
Rated Voltage	48V(Cell Voltage 3.2V)	48V(Cell Voltage 3.2V)	48V(Cell Voltage 3.2V)	48V(Cell Voltage 3.2V)
End of Discharge Voltage	42V(Cell Voltage 2.8V)	42V(Cell Voltage 2.8V)	42V(Cell Voltage 2.8V)	42V(Cell Voltage 2.8V)
Floating Charge Voltage	53.5V(Cell Voltage 3.56V)	53.5V(Cell Voltage 3.56V)	53.5V(Cell Voltage 3.56V)	53.5V(Cell Voltage 3.56V)
End of Charge Current	0.01C (0.05A)	0.01C (0.1A)	0.01C (0.2A)	0.01C (0.25A)
Standard Charge Current	0.2C (1.0A)	0.2C (2.0A)	0.2C (4.0A)	0.2C (5.0A)
Max Discharge Current	3.0C (15A)	3.0C (30A)	3.0C (60A)	1.0C (25A)
Operating Temperature	Charge: -5 ~ 90°C Discharge: -30 ~ 90°C			

Shape



Structure	Outdoor pole mount type, IP54			Outdoor pole mount type, IP65
Communication	CAN, RS-485			CAN x 2
Function	Heater			
Protection	OVP, UVP, OC, HT, LT			
Dimension(mm)	W:220 x D:145 x H:380	W:220 x D:145 x H:380	W:290 x D:145 x H:455	W:300 x D:120 x H:431
Weight	8.9±0.3Kg	11.2±0.3Kg	15.7±0.3Kg	18.9±0.3Kg
Energy Density(Wh/L)	19.8	39.6	50.18	77.34

## Other ESS Systems for Communication

Radio relay stations  
Small-sized Base Stations

**[48V 300Ah]** An integrated system using the "LFPS-481000S" module including a "Rectifier"

Item	Specification	Remark	Reference
Energy(KWh)	14.4		
Typical Capacity(Ah)	300	25°C 0.5C discharge	
Rated Voltage(V)	48		
Standard Charge Voltage(V)	52.5~53.5	Voltage per Cell 3.55V	
Standard End Voltage(V)	42	Voltage per Cell 2.80V	
Standard Charge Current(A)	30	0.1C ( Limited Charge )	
Maximum Discharge Current(A)	300	1.0C	
Communications	CAN		
Temperature Range of Charge(°C)	0 ~ 55		
Temperature Range of Discharge(°C)	-20 ~ 60		
Dimensions (WxDxH) (mm)			
Weight (kg)			
Safety	SPS-KBIA-10104-01 Standard		
Performance	SPS-KBIA-10104-02 Standard		

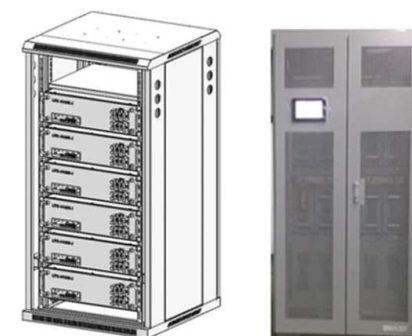


# Other ESS Systems for Communication

Small and Medium-sized Base Stations

[48V 600h]

Item	Specification	Remark	Reference
Energy(KWh)	28.8		
Typical Capacity(Ah)	600	25°C 0.5C discharge	
Rated Voltage(V)	48		
Standard Charge Voltage(V)	53.5	Voltage per Cell 3.55V	
Standard End Voltage(V)	42	Voltage per Cell 2.80V	
Standard Charge Current(A)	120	0.2C	
Maximum Discharge Current(A)	1200	2.0C	
Communications	CAN		
Temperature Range of Charge(°C)	0 ~ 55		
Temperature Range of Discharge(°C)	-20 ~ 60		
Dimensions (WxDxH) (mm)	900 x 1000 x 1900		
Weight (kg)	765		
Safety	SPS-KBIA-10104-01 Standard		
Performance	SPS-KBIA-10104-02 Standard		



## Other ESS Systems for Communication

radio relay stations  
small and medium-sized base stations  
various utility

[48V 900Ah]

Item	Specification	Remark	Reference
Energy(KWh)	43.2		
Typical Capacity(Ah)	900	25℃ 0.5C discharge	
Rated Voltage(V)	48		
Standard Charge Voltage(V)	52.5~53.5	Voltage per Cell 3.55V	
Standard End Voltage(V)	42	Voltage per Cell 2.80V	
Standard Charge Current(A)	180	0.2C	
Maximum Discharge Current(A)	1800	2.0C	
Communications	CAN		
Temperature Range of Charge(℃)	0~55		
Temperature Range of Discharge(℃)	-20~60		
Dimensions (WxDxH) (mm)	900 x 1000 x 1900		
Weight (kg)	765		
Safety	SPS-KBIA-10104-01 Standard		
Performance	SPS-KBIA-10104-02 Standard		





## Other ESS Systems for Communication

Emergency power supply for IDC  
UPS

[384V 100Ah(4C)]

Item	Parameters	Remark	Reference
Model	LFPR-384100	120S1P	
Rated Voltage(V)	384		
Typical Capacity(Ah)	100	20°C 0.2C DCH, EOVS 336V	
Typical Capacity(kWh)	38.4	20°C 0.2C DCH, EOVS 336V	
Standard Charge Voltage(V)	426.0	Voltage per Cell 3.55V	
Standard Charge Current(A)	50	0.5C	
Standard Discharge Current(A)	300	3.0C	
Maximum Charge Current(A)	100	1.0C	
Maximum Discharge Current(A)	300 400	3.0C 15min 4.0C 1min	
Communications	ETHERNET	TCP/IP, SNMP	
Display	LED	TBD	
Debug	RS-232	TBD	
Temperature Range(°C)	-30~60		
Dimensions (mm)	700 x 700 x 2300	Competitor Product Size	
Weight (kg)	TBD		

