

LFP Cells



Basic Properties	PLFP-100	PLFP-304	PLFP-314
Cell Type	LiFePO ₄ - Prismatic		
Nominal Capacity	100 Ah	304 Ah	314 Ah
Nominal Voltage	3.2V		
Charge Cut-off Voltage	3.65V		
Discharge Cut-off Voltage (> 0°C)	2.50V		
Charge Cut-off Current	0.05C		
Discharge Temperature (***)	-15~50°C	-30~50°C	-20~50°C
Charge Temperature	0~50°C	0~50°C	0~50°C
Storage Temperature	-10~60°C	-30~60°C	-30~60°C
Standard Charge/Discharge Rate (25°C)	0.5C/0.5C	1C / 1C	0.5C/0.5C
Cell ACR (25°C, 15%SOC, 1KHz)	≤0.6mΩ	≤0.25mΩ	0.10~0.25mΩ
Cell DCR (25°C, 50%SOC, 100A/10s)	≤1.5mΩ	≤0.6mΩ	≤0.4mΩ
Self Discharge	≤4%/month (50%SOC, 25°C ± 2C)		≤3%/month (100%SOC, 25°C ± 2C)
Cycle Life (*)	≥4000(*)	≥6000 (**)	≥9000(**)
Mechanical Properties			
Humidity Range	0-85%RH (non-condensing)		
Altitude	<3000m		
Case	Prismatic - Aluminium		
Width	173.6 ± 0.5 mm	174.70 ± 0.5 mm	173.82 ± 0.5 mm
Depth	48.6 ± 0.5 mm	71.72 ± 0.5 mm	71.72 ± 0.5 mm
Height (No Pole)	115.6 ± 0.5 mm	204.22 ± 0.5 mm	204.22 ± 0.5 mm
Height (Including Pole head / Port head)	121.5 ± 0.5 mm	207.01 ± 0.5 mm	207.01 ± 0.5 mm
Weight	2.0 ± 0.1 kg	5562 ± 83 g	5605 ± 84 g

(*) Test Conditions: 25°C, at 80% DOD, 80%SOC

(**) Test Conditions: 25°C, at 70% DOD, 70%SOC

(***) Performance may vary in different conditions