



LFP BATTERY CELLS



PLFP-100



PLFP-150



PLFP-302

Model	PLFP-100	PLFP-150	PLFP-302
Nominal Capacity	100Ah	150Ah	302Ah
Nominal Voltage	3.2V	3.2V	3.2V
Limited Voltage in Charge	3.65V	3.65V	3.65V
Final Voltage Discharge (>0°C)	2.50V	2.50V	2.50V
Final Voltage Discharge (≤0°C)	2.00V	2.00V	2.00V
Discharge Temperature	-15~50°C	-15~50°C	-15~50°C
Charge Temperature	0~50°C	0~50°C	0~50°C
Storage Temperature	-10~60°C	-10~60°C	-10~60°C
Standard Charge/Discharge Current (25°C)	0.5C / 0.5C	0.5C / 0.5C	0.5C / 0.5C
Max. Continuous Charge/Discharge Current	1C / 1C	1C / 1C	0.5C / 1C
Max. Pulse (30s) Charge/Discharge Current	2C / 2C	2C / 2C	2C / 2C
ACR (25°C, 15%SOC,1KHz)	≤0.6mΩ	≤0.6mΩ	≤0.3mΩ
DCR (25°C, 50%SOC,100A/10s)	≤2.0mΩ	≤2.0mΩ	≤0.6mΩ
Capacity Retention (25°C, 100%SOC, 30days)	≥95%	≥95%	≥95%
Capacity Retention (60°C, 100%SOC, 7days)	≥95%	≥95%	≥95%
Residual Capacity Loss	≤4%/month (50% SOC ,25°C)	≤4%/month (50% SOC ,25°C)	≤4%/month (50% SOC ,25°C)
Cycle Life (*)	≥5000	≥5000	≥5000
Calendar Life	≥10 Year	≥10 Year	≥10 Year
End of Life	<80%	<80%	<80%
Recommended Range of SOC	10% - 90%	10% - 90%	10% - 90%
Mechanical Properties			
Humidity Range	0-85%RH (non-condensing)	0-85%RH (non-condensing)	0-85%RH (non-condensing)
Altitude	<4500m	<4500m	<4500m
Case	Prismatic - Aluminium	Prismatic - Aluminium	Prismatic - Aluminium
Width	173.9 ± 0.5 mm	173.9 ± 0.5 mm	173.5 ± 1.0 mm
Depth	48.6 ± 0.5 mm	48.6 ± 0.5 mm	72.0 ± 1.0 mm
Height (No Pole)	115.6 ± 0.5 mm	166.6 ± 0.5 mm	204.5 ± 1.0 mm
Height (Including Pole)	119.4 ± 0.5 mm	170.4 ± 0.5 mm	208.8 ± 1.0 mm
Weight	2.0 ± 0.1 kg	2.90 ± 0.1 kg	5.49 ± 0.3 kg

(*) Test Conditions : 25°C, 80% DOD, 80% SOH, 0.5C Charge/Discharge