

LiFePO4 BATTERY

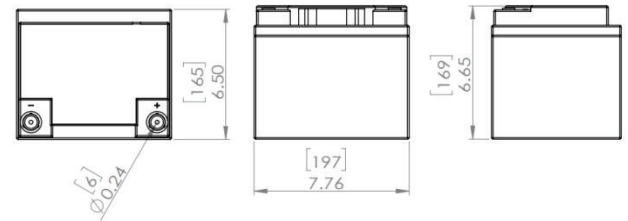
# PGLM50

12V / 50AH / 640WH

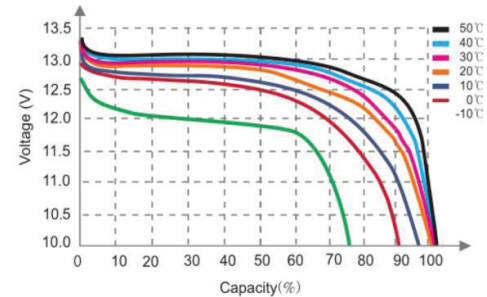


# Pro-Guide® LITHIUM

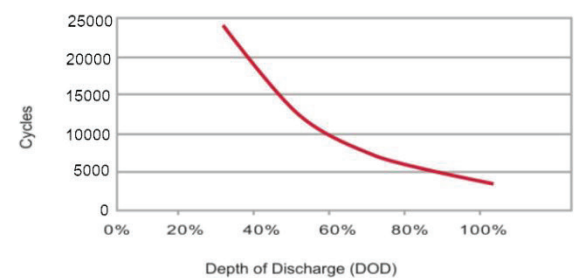
UNIT SPECIFICATIONS	
Nominal Voltage	12.8V
Rated Capacity	50Ah
Circuit Protection	Over Charge, Over Discharge, Over Current Over Temp, Short, Balance
Cycle Life	3000 times Cycles @100% DOD 6000 times @ 80% DOD
Monthly Self Discharge	Less Than 2%
Efficiency of Charge	100% @0.5C
Efficiency of Discharge	96-99% @1C
Charge Voltage	14.6±0.2V
Standard Charge Current	10A
Max Charge Current	25A
Standard Discharge Current	10A
Max Continuous Current	50A
Discharge Cut-Off Voltage	10V
Charge Temperature	0°C to 55°C
Discharge Temperature	-20°C to 60°C @60±25% Relative Humidity
Storage Temperature	-20°C to 45°C
Dimensions	197*165*169*mm
Case/IP Class	Plastic Case/IP65
Terminal	M6
Appx Weight	5.3kg/11.68lbs



### DIFFERENT TEMPERATURE DISCHARGE CURVE (.5C)



### DIFFERENT DOD DISCHARGE CYCLE LIFE CURVE

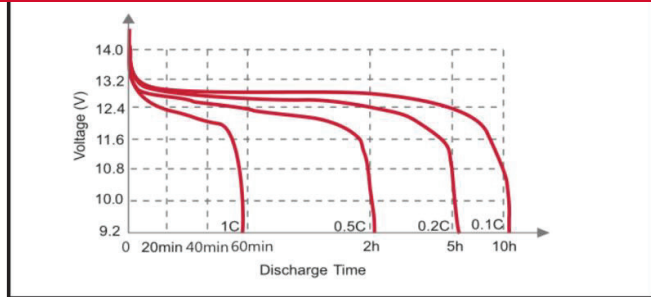




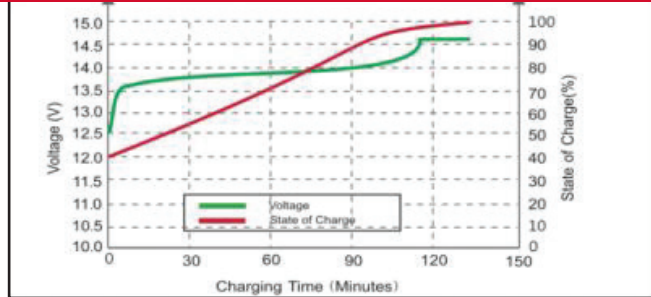
# Pro-Guide<sup>®</sup> LITHIUM

## PRO-GUIDE<sup>®</sup> LITHIUM BATTERY SPECIFICATIONS

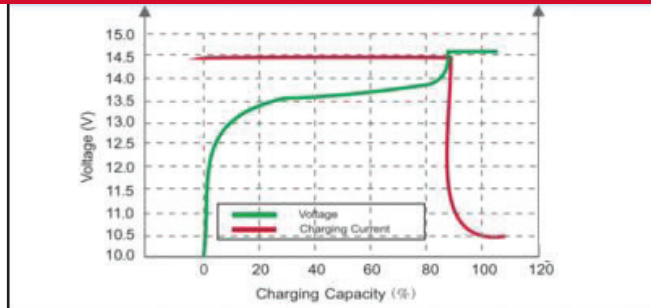
DIFFERENT RATE DISCHARGE CURVE (25°C)



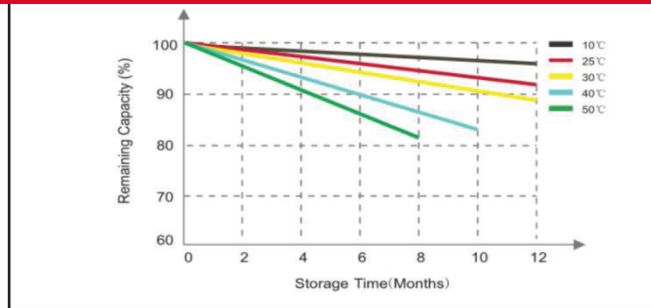
STATE OF CHARGE CURVE (0.5°C, 25°C)



CHARGING CHARACTERISTICS (0.5°C, 25°C)



DIFFERENT TEMPERATURE SELF DISCHARGE CURVE



PART #	Industry Group Size	Nom V	AH	PbEq/ Rated WH	Charge Amp		BMS Constant Current (A)	Terminal Type	Gross Wt		Dimension (mm)				Dimension (in)			
					STD	MAX			kg	lb	L	W	H	Top of Terminal	L	W	H	Top of Terminal
<b>PRO-GUIDE LITHIUM 12V STARTING</b>																		
24M75-ST	Group 24	12.8	75	800	10	75	70A	1 SAE Post, 1 Stud terminal	10.7	23.5	260	173	211	234	10 1/4	6 13/16	8 1/4	9 1/4
31M100-ST	Group 31	12.8	100	1000	10	100	70A	1 SAE Post, 2 Stud terminals	12.6	27.8	327	173	221	244	12 7/8	6 13/16	8 11/16	9 5/8
<b>PRO-GUIDE LITHIUM 12V DEEP CYCLE</b>																		
24M50	Group 24	12.8	50	768	10	50	100A	1 SAE Post, 1 Stud terminal	7.5	16.53	260	173	211	234	10 1/4	6 13/16	8 1/4	9 1/4
24M75	Group 24	12.8	75	960	10	75	100A	1 SAE Post, 1 Stud terminal	9	20.72	260	173	211	234	10 1/4	6 13/16	8 1/4	9 1/4
31M100	Group 31	12.8	100	1280	10	100	100A	1 SAE Post, 1 Stud terminal	12	25.79	327	173	221	244	12 7/8	6 13/16	8 11/16	9 5/8
31M150	Group 31	12.8	150	1800	10	75	150A	Internal Thread (M8)	14	30.87	327	173	221	221	12 7/8	6 13/16	8 11/16	8 11/16
PGLM09	N/A	12.8	9	115	2	9	N/A	F2	1.2	2.65	151	65	95	98	6	1 1/2	3 3/4	3 9/10
PGLM24	N/A	12.8	24	256	10	20	N/A	Internal Thread (M5)	3	6.61	181	76	165	165	7 1/8	3	6 1/2	6 1/2
PGLM50	N/A	12.8	50	640	10	50	N/A	Internal Thread (M6)	6.8	14	196	166	175	175	7 3/4	6 1/2	6 9/10	6 9/10
<b>PRO-GUIDE LITHIUM 24V / 36V DEEP CYCLE</b>																		
24VM72	Group 31	25.6	72	1800	10	25	72A	Internal Thread (M8)	15	33.07	327	173	221	221	12 7/8	6 13/16	8 11/16	8 11/16
36VM50	Group 31	36	50	1800	10	25	100A	Internal Thread (M8)	15	33.07	327	173	221	221	12 7/8	6 13/16	8 11/16	8 11/16