



12V100Ah Deep Cycle Gel Battery

Datasheet, Version 123



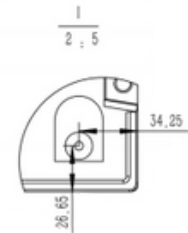
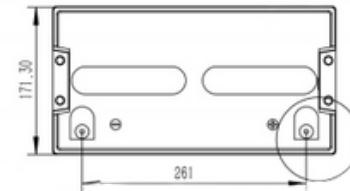
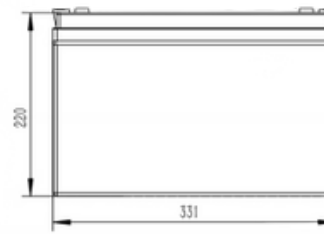
Features:

- 100Ah
- Deep cycle gel battery
- Maintenance-free
- USA gel technology



LAC SOLAR

12V100Ah Deep Cycle Gel Battery



Specifications

Battery Model	LCPC100-12 (12V100Ah)			
Design Life (years, 25°C)	10			
Capacity (Ah, 25°C)	10HR (10A, 1.80V)	5HR (16.6A, 1.80V)	3HR (24.5A, 1.80V)	1HR (54.2A, 1.75V)
	100	83.0	73.5	54.2
Dimensions (mm)	Length	Width	Height	Total Height
	331	176	220	220
Approx. Weight (kg)	29			
Reference Internal Resistance (mΩ)	5.3 (fully charged @ 25°C)			
Maximum Discharge Current (A)	300			
Self-Discharge (25°C)	≤1.5% per months			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.40(-3.5mV/°C/cell), max charge current:25A		2.27(-3.5mV/°C/cell)	
Short Circuit Current (A)	2400			

Discharge Data

Constant Current Discharge Data (25°C , A)									
End Voltage (V/cell)	h								
	1	3	5	10	20	50	100	120	240
1.70	55.70	25.80	17.45	10.23	5.23	2.22	1.16	0.98	0.52
1.75	54.20	25.30	17.10	10.13	5.15	2.18	1.14	0.97	0.51
1.80	52.50	24.50	16.60	10.00	5.07	2.13	1.12	0.95	0.50
1.85	50.50	23.60	16.00	9.80	4.97	2.07	1.09	0.93	0.49
1.90	48.00	22.50	15.30	9.53	4.83	2.00	1.06	0.90	0.48

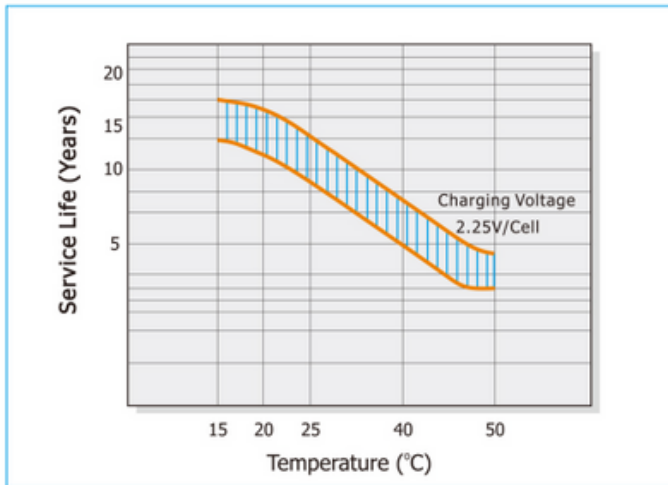
Constant Power Discharge Data (25°C , W)									
End Voltage (V/cell)	h								
	1	3	5	10	20	50	100	120	240
1.70	100.33	42.13	30.33	18.87	9.80	4.75	2.57	2.18	1.10
1.75	97.00	41.40	29.60	18.67	9.63	4.70	2.45	2.14	1.08
1.80	94.33	40.73	28.80	18.47	9.47	4.50	2.28	2.06	1.06
1.85	91.33	40.20	28.13	18.07	9.27	4.26	2.17	1.93	1.02
1.90	88.80	39.60	27.33	17.80	9.13	4.10	2.07	1.86	1.00



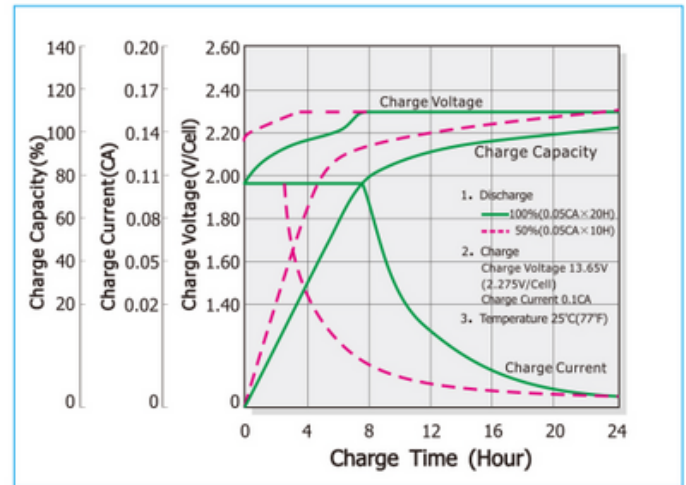
12V100Ah Deep Cycle Gel Battery

Performance Curve

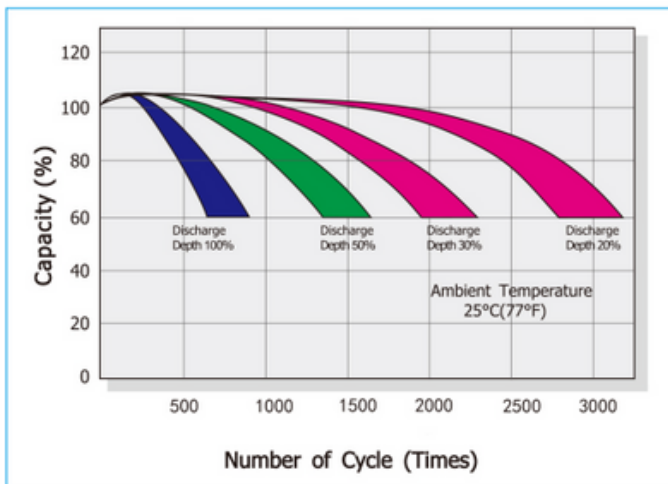
Trickle(or Float) Service Life



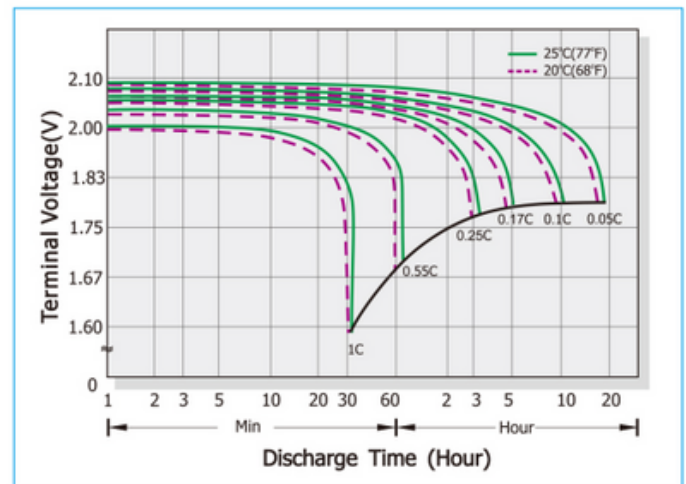
Charge Characteristic



Cycle Service Life



Discharge Characteristic



FEATURES

- Low self-discharge and long shelf life
- Non-Spillable construction
- Safety valve installation for explosion proof
- Exceptional deep discharge recovery performance
- 99.7% pure lead calcium grids and A recognized Component of U.L

APPLICATION

- Photovoltaic system
- Telecommunications
- Emergency Power System
- Power plant and power transformer system
- Control Equipment