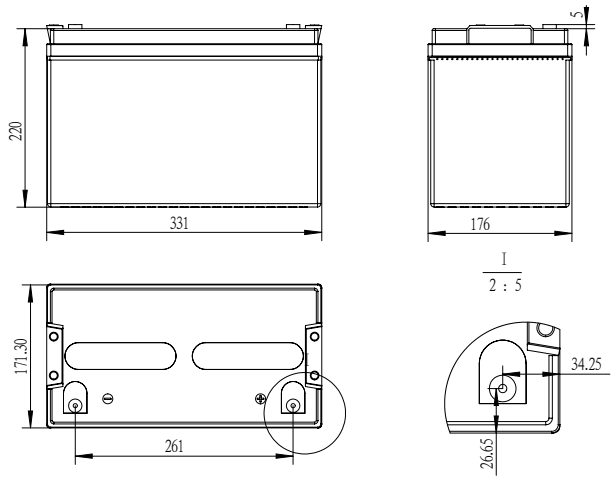
LCPC40-12 Valve Regulated Sealed Gel Battery



Specifications

Battery Model	LCPC40-12 12V40Ah			
Design Life (years, 25℃)	10			
Capacity (Ah, 25℃)	10HR (4.0A, 1.80V)	5HR (6.64A, 1.80V)	3HR (9.8A, 1.80V)	1HR (21.68A, 1.75V)
	40	33.2	29.4	21.68
Dimensions (mm)	Length	Width	Height	Total Height
	196	165	173.5	173.5
Approx. Weight (kg)	11.8			
Reference Internal Resistance (mΩ)	9.1 (fully charged @ 25℃)			
Maximum Discharge Current (A)	110			
Self-Discharge (25℃)	⩽1.5% per months			
Charge Voltage (V/cell, 25℃)	Cycle use		Float use	
	2.40(-3.5mV/℃/cell), max charge current: 10A		2.27(-3.5mV/℃/cell)	
Short Circuit Current (A)	1600			

Discharge Data

Constant Current Discharge Data (25℃, A)

End VoltAge (V/cell)	h								
	1	3	5	10	20	50	100	120	240
1.70	22.28	10.32	6.98	4.09	2.09	0.89	0.46	0.39	0.21
1.75	21.68	10.12	6.84	4.05	2.06	0.87	0.46	0.39	0.20
1.80	21.00	9.80	6.64	4.00	2.03	0.85	0.45	0.38	0.20
1.85	20.20	9.44	6.40	3.92	1.99	0.83	0.44	0.37	0.20
1.90	19.20	9.00	6.12	3.81	1.93	0.80	0.42	0.36	0.19

Constant Power Discharge Data (25℃, W)

End VoltAge (V/cell)	h								
	1	3	5	10	20	50	100	120	240
1.70	40.13	16.85	12.13	7.55	3.92	1.90	1.03	0.87	0.44
1.75	38.80	16.56	11.84	7.47	3.85	1.88	0.98	0.86	0.43
1.80	37.73	16.29	11.52	7.39	3.79	1.80	0.91	0.82	0.42
1.85	36.53	16.08	11.25	7.23	3.71	1.70	0.87	0.77	0.41
1.90	35.52	15.84	10.93	7.12	3.65	1.64	0.83	0.74	0.40

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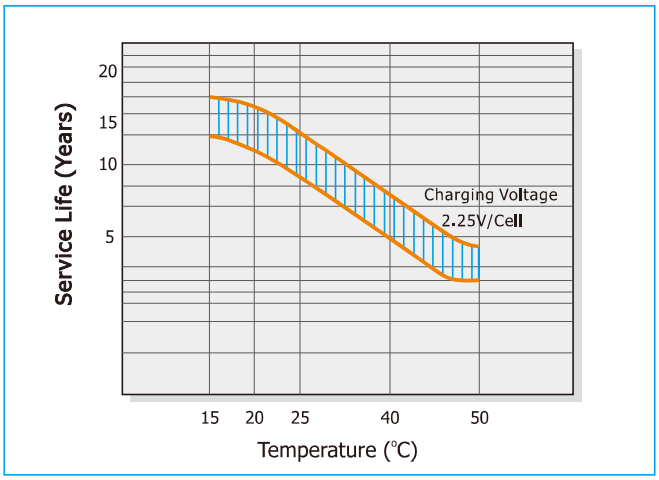
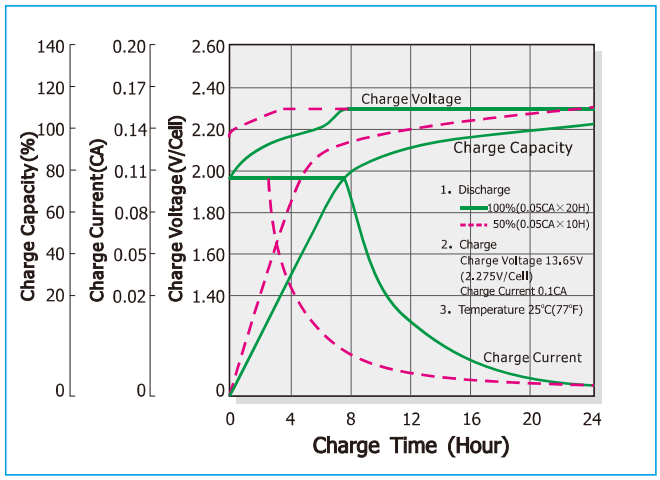
Performance Curve

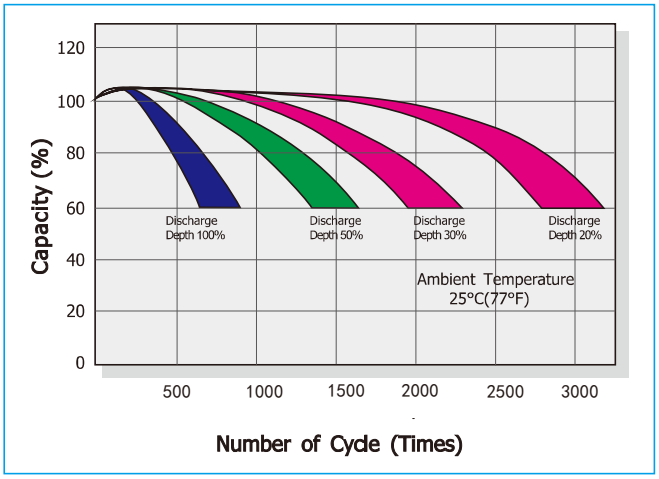
Trickle(or Float) Service Life



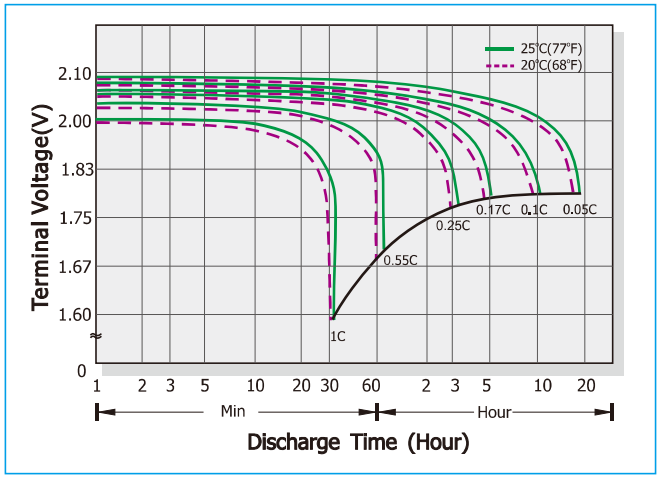
Charge Characteristic



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

- IEC 60896-21/22
- DIN 40742
- YD/T 1360-2005

ISO 9001