

Advantages

- Deep cycle for solar application
- Good large current discharge performance
- High gas recombination efficiency
- Maximum charge efficiency
- Low self-discharge rate
- Easy installation and handling

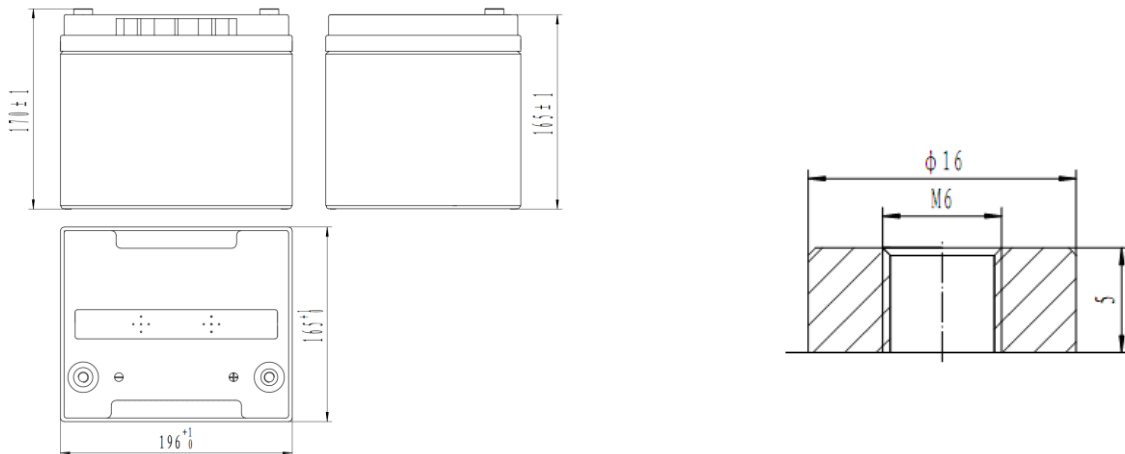
Application

- Electrical Vehicle
- Renewable energy
- universal

Standards

- IEC60896-21/22:2004
- IEC61427-2005
- Eurobat guide
- Installation compliant with EN50272-2

Drawing



Specification

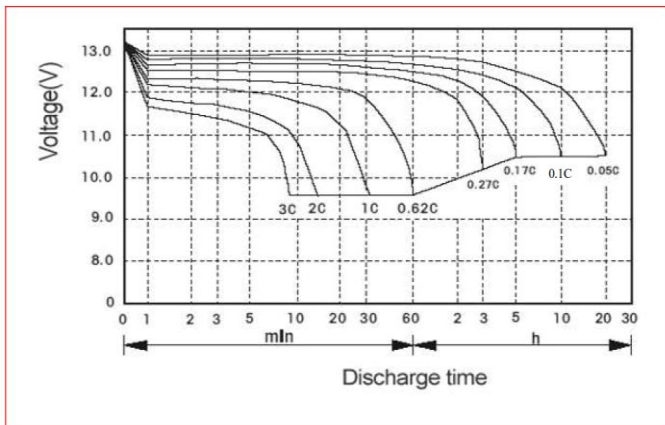
Battery Model	SDC 12-40			
Design Life (year, 25°C)	10			
Capacity (Ah, 25°C)	20HR(2.25A,1.75V)	10HR(4.0A,1.75V)	5HR(7.89A,1.75V)	3HR(12A,1.75V)
	45	40	39.5	36
Dimensions (mm)	Length	Width	Height	Total Height
	196	165	165	170
Approx. Weight (kg)	14.0			
Internal Resistance (mΩ)	6.0			
Maximum Discharge Current (A/10 Sec.)	180			
Self-Discharge (25°C)	≤3% per months			
Charge Voltage (V, 25°C)	Cycle use		Float use	
	14.7 (-18mV/°C), max charge current:5A		14.1 (-18mV/°C)	

Discharge Data

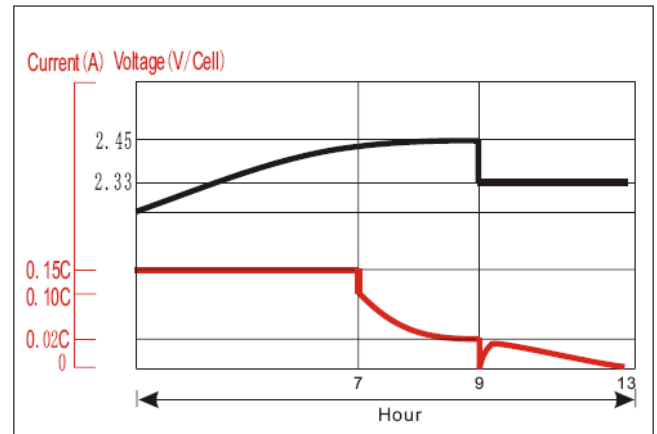
Constant current discharge data (25°C , A)											
End voltage (V/cell)	10min	20min	30min	45min	60min	90min	2h	3h	5h	10h	20h
1.60	101.7	63.97	48.35	35.52	29.02	21.34	17.27	12.38	8.10	4.092	2.295
1.65	99.34	62.79	47.54	34.94	28.63	21.07	17.07	12.23	8.03	4.055	2.277
1.70	97.43	61.89	46.90	34.51	28.33	20.87	16.90	12.12	7.97	4.032	2.263
1.75	90.7	59.40	45.36	33.60	27.72	20.52	16.67	12.00	7.89	4.000	2.250

Constant power discharge data (25°C , W/cell)											
End voltage (V/cell)	10min	20min	30min	45min	60min	90min	2h	3h	5h	10h	20h
1.60	190.9	122.7	93.5	69.2	56.91	42.01	34.11	24.55	16.10	8.77	4.586
1.65	187.1	120.7	92.2	68.3	56.32	41.61	33.79	24.29	15.99	8.71	4.558
1.70	184.2	119.3	91.2	67.6	55.81	41.30	33.55	24.13	15.90	8.68	4.540
1.75	172.0	115.0	88.6	66.1	54.75	40.70	33.15	23.94	15.80	8.62	4.519

Performance Curve:



Discharge performance



Charge performance

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