

SDC Series

SDC12-40 12V40Ah

SDC VRLA battery uses AGM and GEL hybrid technology, it has good deep cycle and large current discharge performance. As the economy-type solar battery, it can be widely used in renewable energy, electrical vehicle etc.



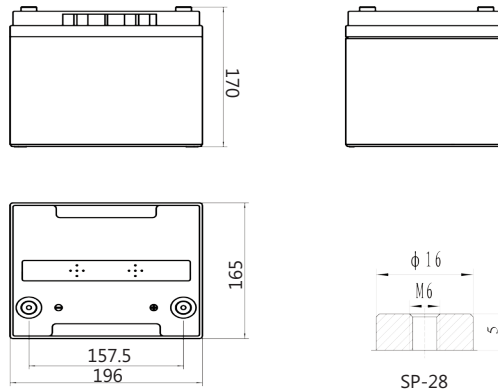
Benefits

- 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

Applications

- Electrical Vehicle
- Renewable Energy
- Universal

Drawing



Standards

- IEC 60896-21/22
- IEC 61427
- EUROBAT guide

Specifications

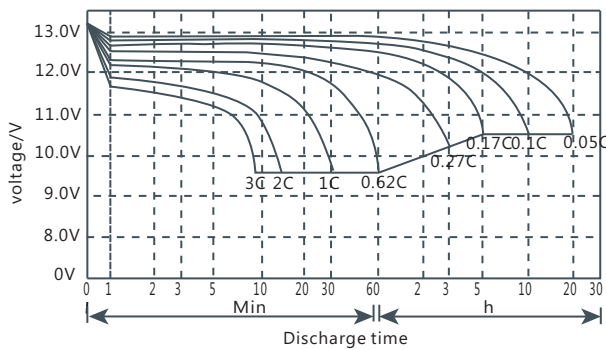
Battery Model	SDC12-40			
Design Life (years, 25°C)	10			
Capacity (Ah, 25°C)	20HR (2.25A, 1.75V)	10HR (4.0A, 1.75V)	5HR (7.89A, 1.75V)	3HR(12A, 1.75V)
	45	40	39.5	36
Dimensions (mm)	Length	Width	Height	Total Height
	196	165	165	170
Approx. Weight (kg)	14.0			
Reference Internal Resistance (mΩ)	6.0 (fully charged @ 25°C)			
Maximum Discharge Current (A/10 Sec.)	180			
Self-Discharge (25°C)	< 3% per month			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	2.45 (-3.0mV/°C/cell), max charge current: 5A		2.35 (-3.0mV/°C/cell)	
Short Circuit Current (A)	360			

Discharge Data

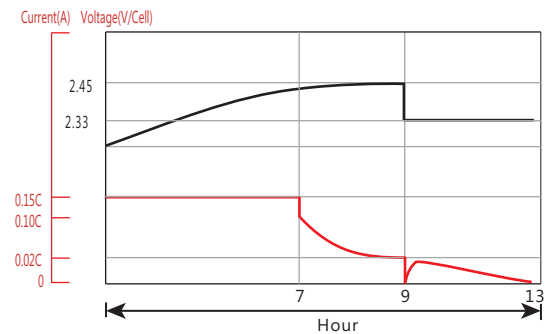
Constant Current Discharge Data (25°C, A)											
End Voltage (V/cell)	min				h						
	10	20	30	45	1	1.5	2	3	5	10	20
1.60	101.7	63.97	48.35	35.52	29.02	21.34	17.27	12.38	8.10	4.092	2.295
1.65	99.34	62.79	47.54	34.94	28.63	21.07	17.07	12.23	8.03	4.055	2.277
1.70	97.43	61.89	46.90	34.51	28.33	20.87	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)											
End Voltage (V/cell)	min				h						
	10	20	30	45	1	1.5	2	3	5	10	20
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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