




Absorbed Glass Mat VRLA Industrial Battery Block



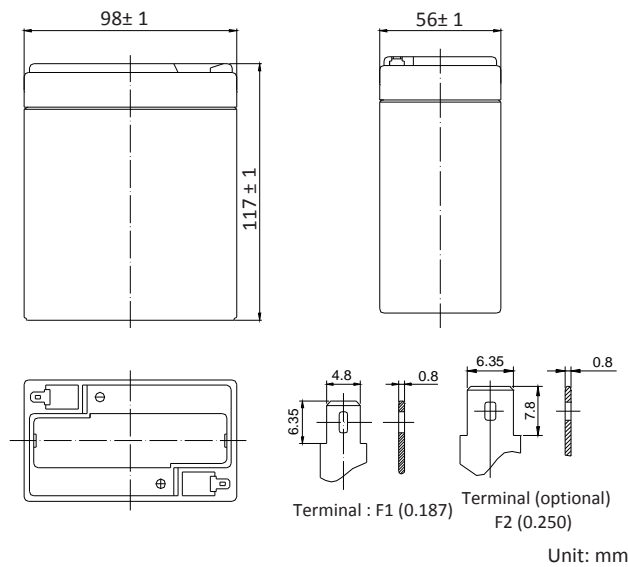
Part No.D685S
6V 8Ah (20hr)

Discover® D Series VRLA Industrial Batteries provide superior high integrity and reliability for commercial, industrial, and private applications. The maintenance-free valve regulated lead acid (VRLA) construction make Discover® D Series Batteries the definitive choice for mobility and home medical equipment (HME), broadband and cable TV (CATV), uninterruptible power supplies (UPS), telecommunications, solar and renewable energy, electronics and security, marine and RV, and utility applications.

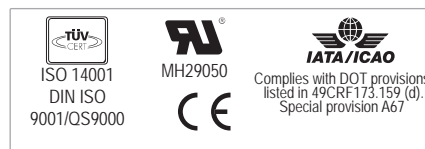
D Series Features And Benefits

- Tank formed lead-tin-calcium plates deliver consistent dependable performance and promote long life.
- Epoxy post seal promotes trouble-free service and eliminates acid egress. Optional terminals available.
- 99% gas recombination for extended life in float applications.
- Flame retardant ABS case and cover with UL94 V0 rating available.
- UL 924 recognized flame arresting low pressure safety vents.
- 98% Recyclable.   
- Classified as a Non-Spillable battery and is not restricted for transportation by air (IATA/ICAO prov. 67), Surface (DOT-CFR-HMR49), Water (Per IMDG Amendment 27).

Part No.
D685S



D685S Specifications		
Length	98 mm	3.86 in
Width	56 mm	2.20 in
Height	117 mm	4.61 in
Total Height	117 mm	4.61 in
Weight	1.4 kg	3.09 lb
Volts	6V	
Number of Cells	3	
Terminal Torque	N/A	
Terminal Type	F1 (F2 optional)	
Short Circuit	400Amps	
Internal Resistance	13 mOhms (fully charged)	
Electrolyte	1.300S.G.	
Self Discharge	3% per month (77°F/25°C)	
20 hr Capacity	8 Ah (77°F/25°C)	
10 hr Capacity	7.8Ah (77°F/25°C)	
5 hr Capacity	7.3 Ah (77°F/25°C)	
1 hr Capacity	5.6 Ah (77°F/25°C)	
Max discharge current	120A (5s) (77°F 25°C)	
Design	3-5 years Float	
Charging: Constant Voltage Charge		
Cycle Use	7.25 - 7.45V	
Maximum charging current	3.2A	
Temperature compensation	-15mV/°C	
Standby Use	6.8 - 6.9V	
Temperature compensation	-10mV/°C	



Discharge Constant Current (Amperes at 77°F 25°C)										
End Point										
Volts/Cell	5 min	10 min	15 min	30 min	1h	3h	5h	10h	20h	
1.60V	32.0	21.3	16.5	9.10	5.60	2.35	1.57	0.83	0.41	
1.65V	30.3	20.3	15.8	8.74	5.40	2.28	1.54	0.81	0.41	
1.70V	28.6	19.2	15.0	8.35	5.18	2.20	1.51	0.80	0.41	
1.75V	26.8	18.2	14.2	7.95	4.95	2.11	1.46	0.78	0.40	
1.80V	25.0	17.1	13.4	7.54	4.72	2.02	1.42	0.76	0.39	

Discharge Constant Power (Watts at 77°F 25°C)										
End Point										
Volts/Cell	5 min	10 min	15 min	30 min	45 min	1hr	2hr	3hr	5hr	
1.60V	63.0	40.3	33.0	18.9	14.2	11.1	7.51	4.67	3.10	
1.65V	59.1	37.9	31.2	17.9	13.6	10.6	7.29	4.56	3.06	
1.70V	55.2	35.6	29.4	17.0	12.9	10.1	7.04	4.43	3.00	
1.75V	51.4	33.2	27.6	16.0	12.2	9.61	6.77	4.22	2.92	
1.80V	47.6	30.9	25.7	15.0	11.5	9.09	6.47	4.02	2.81	

Operating temperatures	
Charging	-4°F/-20°C to 140°F/60°C
Discharge	14°F/-10°C to 140°F/60°C
Storage	-4°F/-20°C to 140°F/60°C

