

# Absorbed Glass Mat VRLA Industrial Battery Block



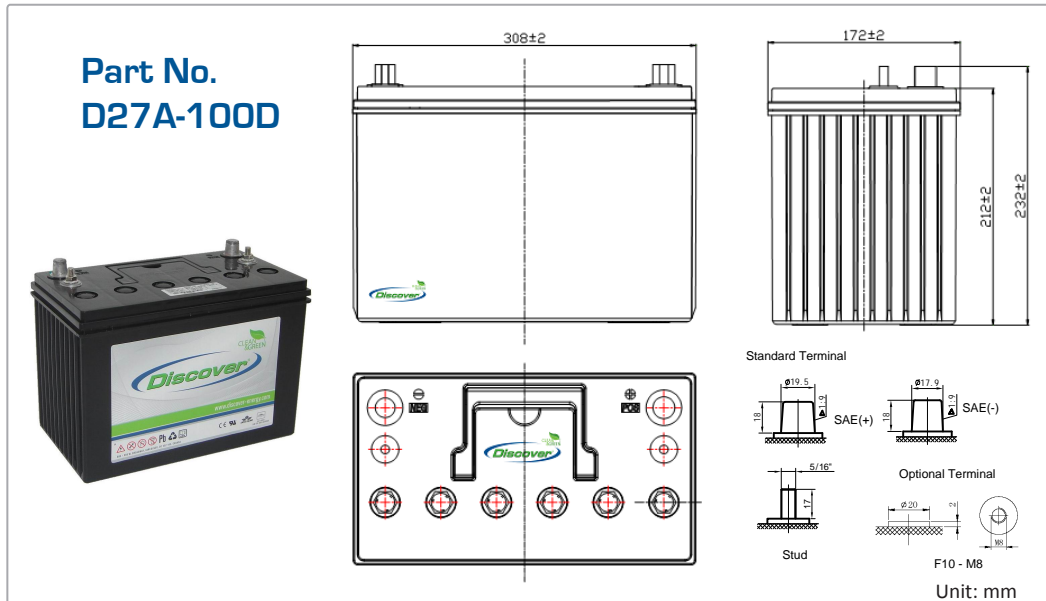
Part No. D27A-100D

12V 100Ah (20hr)

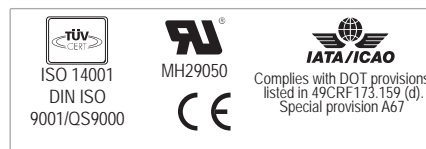
Discover® D Series VRLA Industrial Batteries provide superior high integrity and reliability for commercial, industrial, and private applications. The maintenance-free valve regulated lead acid (VRLA) construction make Discover® D Series Batteries the definitive choice for mobility and home medical equipment (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 PP 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).



D27A-100D Specifications		
Length	308 mm	12.1 in
Width	172 mm	6.77 in
Height	212 mm	8.35 in
Total Height	232 mm	9.13 in
Weight	27.0 kg	59.5 lb
Volts	12V	
Number of Cells	6	
Terminal Torque	10NM, 13ft lbs	
Terminal Type	AM (M8 F10 optional)	
Short Circuit	2100 Amps	
Internal Resistance	5 mOhms (fully charged)	
Self Discharge	3% per month (77°F/25°C)	
20 hr / 5 hr Capacity	100 Ah / 82 Ah (77°F/25°C)	
MOD @ 25A / @ 75A	180 min / 48 min (77°F/25°C)	
CA ref @ 0 °C	700 amps	
CCA ref @ -18 °C	550 amps	
Max discharge current	800A (5s) (77°F 25°C)	
Design	Cyclic	
<b>Charging: Constant Voltage Charge</b>		
Cycle Use	14.4-14.7V	
Maximum charging current	27 A	
Temperature compensation	-30mV/°C	
Standby Use	13.6-13.8V	
Temperature compensation	-20mV/°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	313	214	177	99.9	61.6	25.2	17.2	9.33	5.15
1.65V	287	201	168	96.0	60.6	24.7	17.0	9.31	5.10
1.70V	262	186	159	93.1	59.7	24.2	16.7	9.26	5.04
1.75V	235	174	148	90.2	58.7	23.6	16.4	9.20	5.00
1.80V	208	159	139	88.3	57.7	22.9	16.1	9.11	4.80

Discharge Constant Power (Watts at 77°F 25°C)									
End Point Volts/Cell	5 min	10 min	15 min	30 min	45 min	1h	2h	3h	5h
1.60V	539	380	310	188	140	120	68.9	48.6	34.0
1.65V	501	361	306	182	136	118	67.7	48.0	33.8
1.70V	464	342	296	178	133	117	66.4	47.5	33.5
1.75V	428	324	285	172	130	113	65.3	46.9	33.3
1.80V	389	303	275	166	127	111	64.6	46.2	33.0

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

