

# DF Series

## 3-DF-300 6V300Ah

Sacred Sun DF series batteries have been designed specifically for Electrical vehicle. It use high purity electrolysis lead,high density lead paste,special long effective additive.Excellent cycle life and recoverage performance from over-discharged state Excellent large current discharge performance, there is obvious advantage in start-up and climbing slope stage.



### Benefits

- Up to 700 cycles 80% DOD
- High discharge performance
- High adsorptive performance AGM separator
- Maximum charge efficiency
- Maintenance free, there is no need to add water during operation.

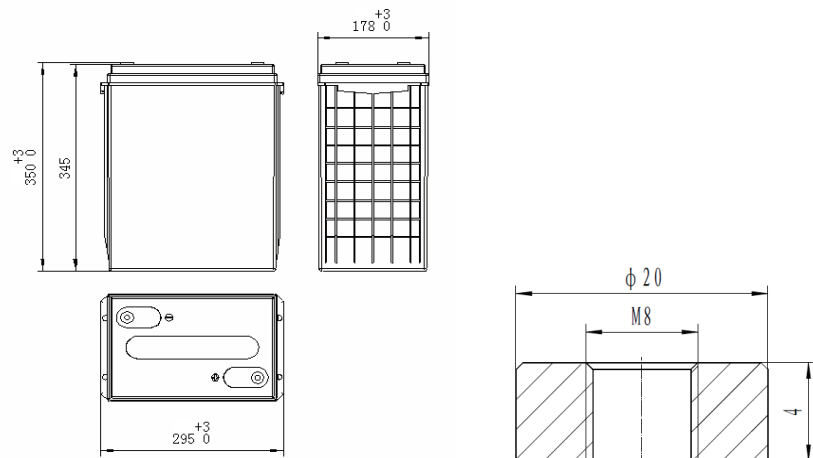
### Applications

- Electrical Vehicle
- Mixture Electrical vehicle
- Sightseeing car
- Golf car
- Electrical transit car
- Electrical patrol car
- Public project car
- Electrical tractor
- Property maintenance car
- Electrical flat car
- Electrical freight car
- Electrical drone car

### Standards

- GB/T 32620.1-2016
- GB/T 7403.1-2018
- GB/T 23636-2017

### Drawing



### Specifications

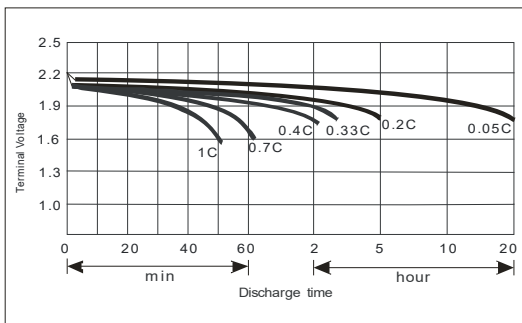
Battery Model	3-DF-300			
Design Life (years, 25°C)	700times (80%DOD)			
Capacity (Ah, 25°C)	20hr(15.75A,1.75V)	10 hr (31A,1.75V)	5 hr (60A,1.75V)	3 hr (88.3A,1.75V)
	315	310	300	265
Dimensions (mm)	Length	Width	Height	Total Height
	295	178	345	350
Approx. Weight (kg)	45			
Reference Internal Resistance (mΩ)	1.6( fully charged @ 25°C)			
Maximum Discharge Current (A/10 Sec.)	2385			
Self-Discharge (25°C)	< 3% per month			
Charge Voltage (V/cell, 25°C)	Cycle use		Float use	
	7.35V(-9mV/°C), max charge current:40A		7.05V(-9mV/°C)	

## Discharge Data

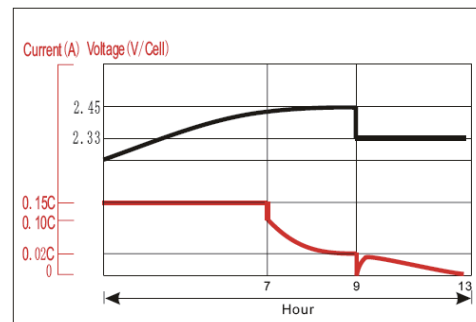
Constant current discharge data (25°C , A)											
End voltage (V/cell)	10min	20min	30min	45min	60min	90min	2h	3h	5h	10h	20h
1.60	685.3	432.1	337.3	262.3	198.4	144.2	123.9	88.95	60.47	31.21	15.83
1.65	678.8	427.9	334.4	261.2	197.6	143.9	123.2	88.85	60.29	31.09	15.78
1.70	668.3	421.3	333.1	260.2	196.9	143.5	122.6	88.79	60.18	31.06	15.77
1.75	655.2	413.4	327.6	256.5	195.0	142.1	122.0	88.33	60.00	31.00	15.75

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	1276	822.5	652.7	508.9	387.6	283.6	222.5	175.7	122.9	60.19	35.32
1.65	1267	816.5	648.7	508.1	387.0	283.9	222.5	175.3	123.6	60.14	35.26
1.70	1251	806.0	647.9	507.5	386.6	284.1	222.3	175.4	123.3	60.11	35.23
1.75	1229	792.4	638.8	501.5	383.5	281.9	221.2	174.8	123.1	60.09	35.20

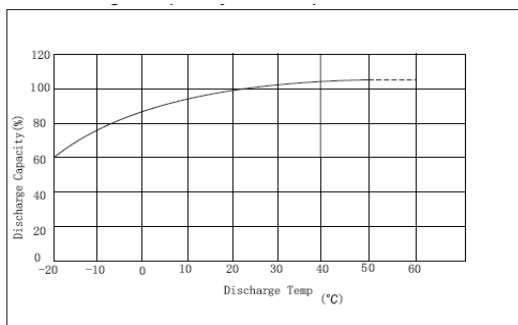
## Performance Curve



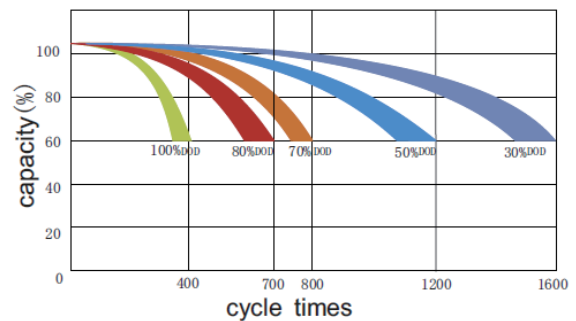
Discharge performance



Charge performance



Discharge capacity Vs temperature



Cycle life Vs discharge depth

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