

3-EVF-380



Electric vehicle battery expert

Applications

- Electric vehicle
- Electric wheelchair
- Electric scooter
- Electric play car for children
- Garbage truck
- Patrol car

Specification

Nominal Voltage	6V
Nominal Capacity	380Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 55.0kg (121lbs)
Container Material	ABS

Rated Capacity	410Ah	20Hour Rate (20.5A to 5.40V)
	380Ah	10Hour Rate (38.0A to 5.40V)
	267Ah	3Hour Rate (89.0A to 5.40V)
	216Ah	1Hour Rate (216.0A to 5.25V)

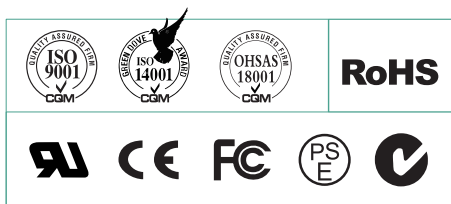
Internal resistance	Full charged at 25°C:	1.1 mΩ
Max. Discharge Current	3800A(5S)	
Operating Temperature	Discharge:	-20 ~50°C (-4 ~ 122°F)
	Charge:	-20 ~50°C (-4 ~ 122°F)
	Storage:	-20 ~50°C (-4 ~ 122°F)

Charge Method (25 °C)	Charge current: Max. 100A; Recom.38.0A
	Float Charge:6.75-6.90V, recom.6.75V(-9mV/ °C)
	Equalize charge:6.90-7.05V, recom.7.05V(-12mV/ °C)
	Cycle charge:7.20-7.50V, recom.7.20V(-15mV/ °C)

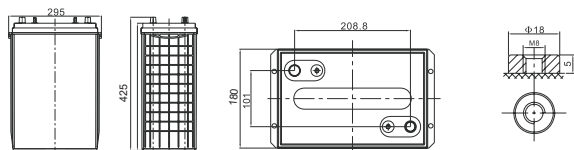
Self discharge	3% of capacity declined per month at 25°C
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General Features

- High Corrosion Resistant Performance: Pb-Ca multi-alloy grid
- High Energy Density and Power Density
- Excellent Charge Acceptance Ability
- Strong High and Low Temperature Performance
- Optimized Capability of instant High-current Discharging
- Low self-discharge rate



Dimension:295(L)×180(W) ×405(H)×425(TH) Unit: mm



Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

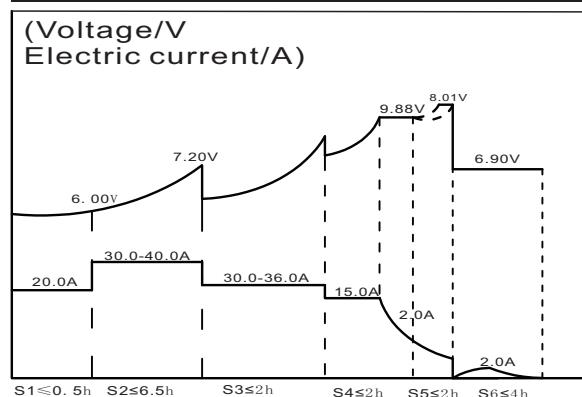
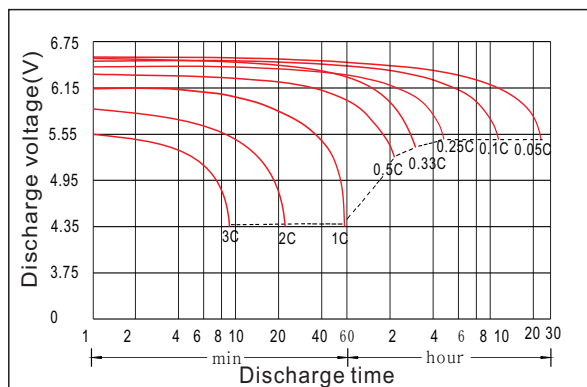
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	1210	706	460	250	145	93	69.6	47.4	39.6	21.1
1.65V	1265	674	443	247	140	92	68.5	47.1	39.2	20.9
1.70V	1110	640	424	247	138	91	67.4	46.5	38.9	20.9
1.75V	1165	615	410	241	135	90	66.1	44.9	38.4	20.7
1.80V	1041	581	388	234	128	89	64.9	43.8	38.0	20.5
1.85V	917	551	367	216	120	88	62.6	42.2	36.8	20.2

Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

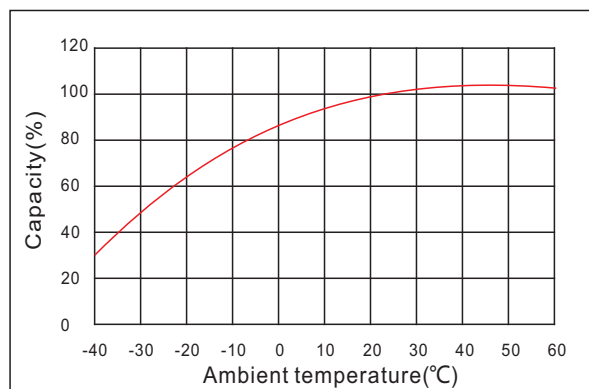
FV/Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	2104	1235	816	480	282	183	133	91.2	76.2	41.6
1.65V	2016	1210	790	472	272	181	132	89.9	75.5	41.4
1.70V	1960	1194	765	465	264	179	130	89.0	74.1	41.3
1.75V	1980	1185	740	460	238	176	128	84.2	73.5	41.1
1.80V	1873	1104	720	454	237	175	125	83.5	72.6	40.9
1.85V	1650	1045	699	421	236	172	122	82.3	71.7	40.4

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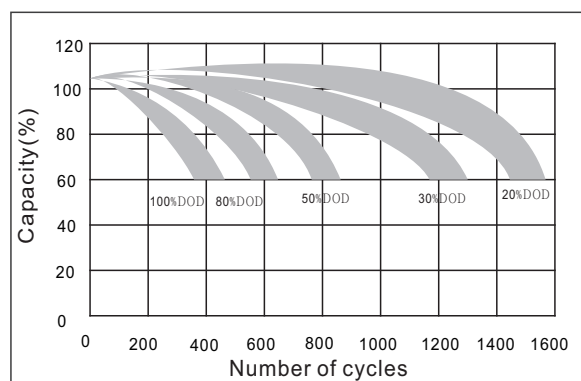
Discharge characteristic



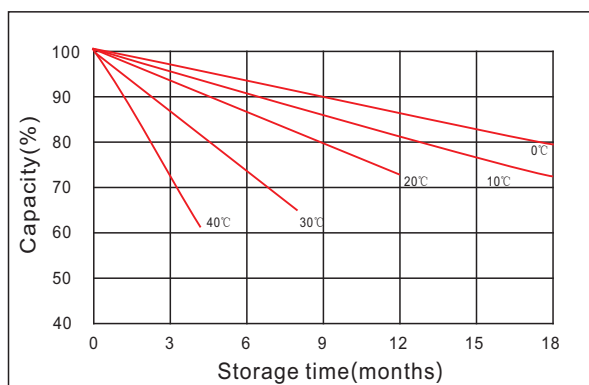
The effect of temperature on capacity



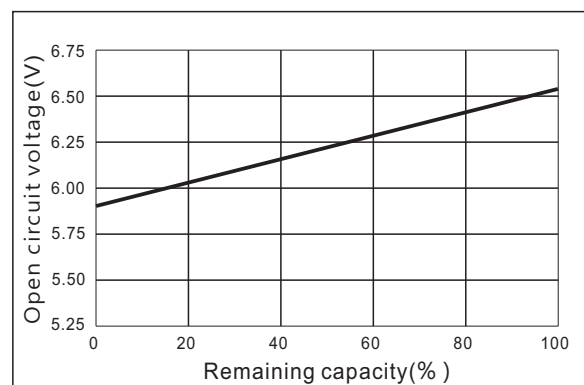
The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity



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