

# Qoltec®



## AGM battery 6V | 4.5Ah

Product code: 53032

### Applications

- › UPS/EPS
- › Power systems
- › Telecommunications system
- › Emergency lighting、Auto control system
- › Solar/wind generating storage cyclic
- › Other general purpose

### Specification

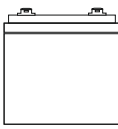
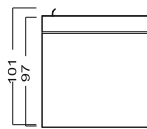
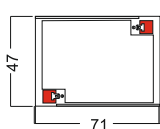
Nominal Voltage	6V		
Nominal Capacity	4.5Ah		
Design life	5 years		
Terminal	F187		
Approx. Weight	Approx0.75kg (1.65lbs)		
Container Material	ABS		
Rated Capacity	4.50Ah	20Hour Rate	(0.225A to 5.25V)
	3.51Ah	3Hour Rate	(1.17A to 5.25V)
	2.97Ah	1Hour Rate	(2.97A to 4.80V)
Internal resistance	Full charged at 25 °C: 25.0 m Ω		
Max. Discharge Current	68A (5 sec)		
Operating Temperature	Discharge: -15~50 °C (5~122 °F)		
	Charge: -10~50 °C (14~122 °F)		
	Storage: -20~50 °C (-4~122 °F)		
Charge Method (25 °C)	Charge current:	Max. 1.35A; Recom. 0.45A	
	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		

### General Features

- › High corrosion resistant performance: Pb-Ca multi-alloy grid
- › High energy density and power density
- › Optimized capability of instant high-current discharging
- › Excellent charge acceptance ability
- › Strong high and low temperature performance
- › Precision sealing technology



Dimension: 71(L)×47(W) ×97(H) ×101(TH) Unit: mm



Terminal

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

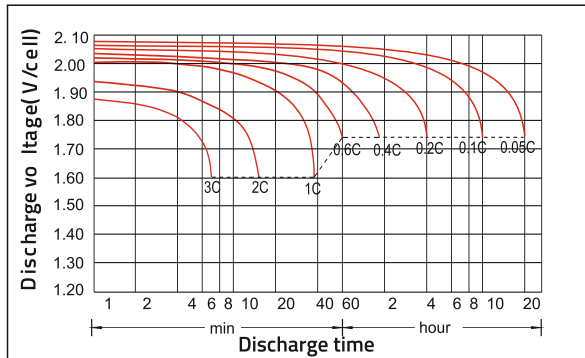
FV/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	17.8	11.7	8.69	5.69	2.97	1.70	1.24	0.995	0.846	0.558	0.446	0.239
1.65V	17.7	11.2	7.97	5.40	2.79	1.63	1.21	0.963	0.828	0.549	0.441	0.234
1.70V	14.5	10.5	7.43	5.24	2.70	1.60	1.18	0.914	0.819	0.540	0.432	0.230
1.75V	13.5	10.0	6.93	5.12	2.61	1.56	1.17	0.900	0.783	0.527	0.423	0.225
1.80V	12.4	9.41	6.44	4.95	2.52	1.52	1.10	0.882	0.752	0.513	0.414	0.216

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

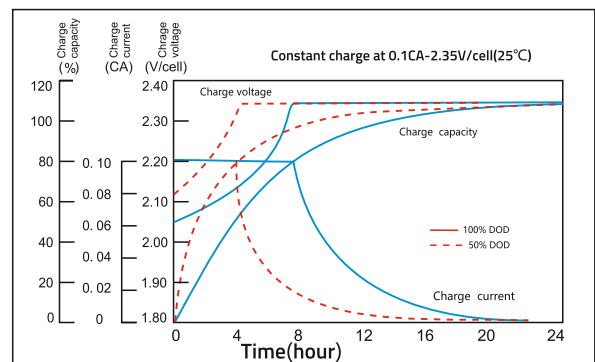
FV/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	33.5	21.0	15.9	9.62	5.45	3.19	2.35	1.88	1.60	1.05	0.863	0.473
1.65V	30.8	19.9	14.9	9.55	5.12	3.07	2.28	1.82	1.57	1.04	0.847	0.460
1.70V	28.2	19.3	14.3	9.52	4.97	3.01	2.24	1.73	1.52	1.03	0.840	0.456
1.75V	25.6	18.7	13.7	9.42	4.82	2.94	2.21	1.71	1.49	0.985	0.821	0.446
1.80V	23.0	18.1	13.1	9.35	4.76	2.92	2.15	1.70	1.46	0.952	0.804	0.443

Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

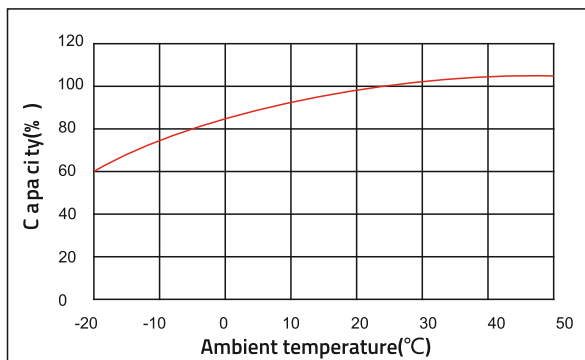
## Discharge characteristic



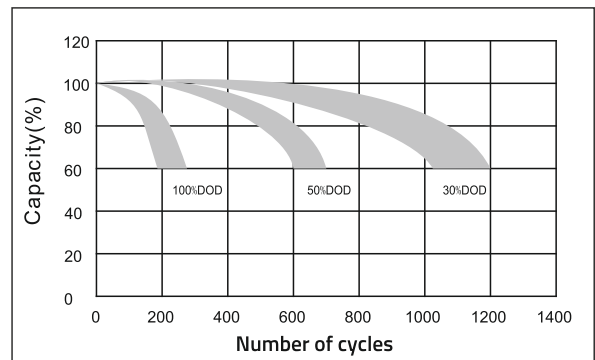
## Charging characteristic



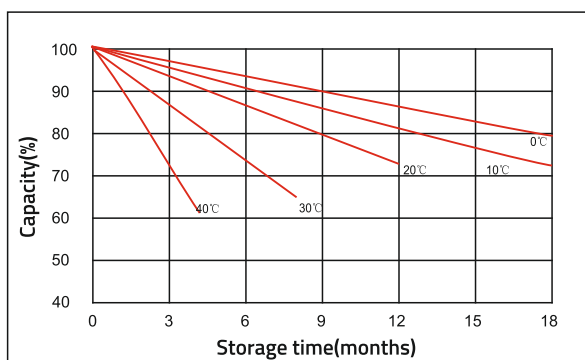
## The effect of temperature on capacity



## The effect of discharge depth on cycle life



## Curves of self-discharge



## The effect of temperature on float life

