

# Qoltec®



## AGM battery 12V | 1.3Ah

Product code: 53040

### Applications

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

### Specification

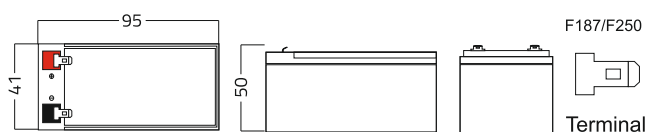
Nominal Voltage	12V
Nominal Capacity	1.3Ah
Design life	5 years
Terminal	F187/F250
Approx Weight (net)	0.5210kg
Container Material	ABS
Rated Capacity	<b>1.300Ah</b> 20Hour Rate (0.065A to 10.5V)
	<b>1.011Ah</b> 3Hour Rate (0.337A to 10.5V)
	<b>0.858Ah</b> 1Hour Rate (0.858A to 9.60V)
Internal resistance	Full charged at 25 °C: 95.0 mΩ
Max. Discharge Current	18A (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 current: Max. 0.36A; Recom. 0.13A	
Charge Method (25 °C)	Float Charge: 13.5-13.8V,recom.13.5V(-18mV/ °C)
	Equalize charge:13.8-14.1V,recom.14.1V(-24mV/ °C)
	Cycle charge:14.4-15.0V,recom.14.4V(-30mV/ °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



Dimensions (D/LxWxH): 41x95x50 mm



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

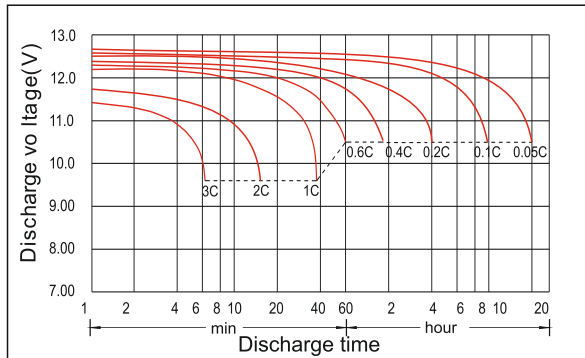
FV/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	5.15	3.37	2.51	1.64	0.858	0.491	0.359	0.287	0.244	0.161	0.129	0.069
1.65V	5.11	3.22	2.30	1.56	0.806	0.472	0.348	0.278	0.239	0.159	0.127	0.068
1.70V	4.19	3.03	2.15	1.51	0.780	0.463	0.342	0.264	0.237	0.156	0.125	0.066
1.75V	3.89	2.89	2.00	1.48	0.753	0.451	0.337	0.260	0.226	0.152	0.122	0.065
1.80V	3.58	2.72	1.86	1.43	0.727	0.439	0.319	0.255	0.217	0.148	0.120	0.062

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

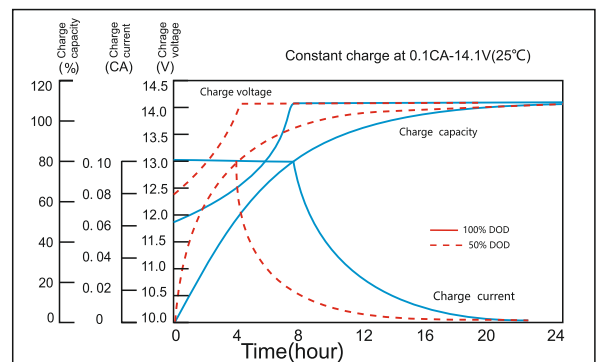
FV/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	9.66	6.07	4.59	2.78	1.57	0.921	0.678	0.544	0.462	0.304	0.249	0.137
1.65V	8.91	5.74	4.31	2.76	1.48	0.886	0.659	0.527	0.453	0.300	0.245	0.133
1.70V	8.15	5.57	4.12	2.75	1.43	0.869	0.648	0.501	0.440	0.297	0.243	0.132
1.75V	7.39	5.40	3.97	2.72	1.39	0.849	0.639	0.494	0.431	0.284	0.237	0.129
1.80V	6.63	5.22	3.79	2.70	1.37	0.843	0.622	0.490	0.420	0.275	0.232	0.128

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.

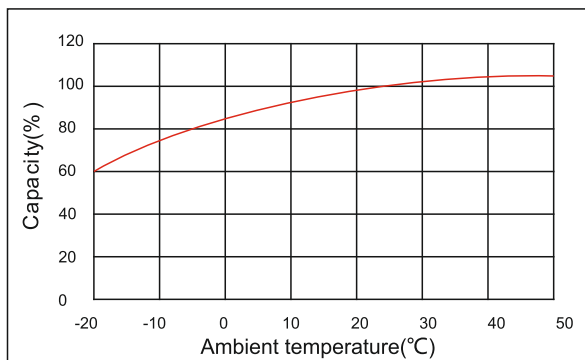
## Discharge characteristic



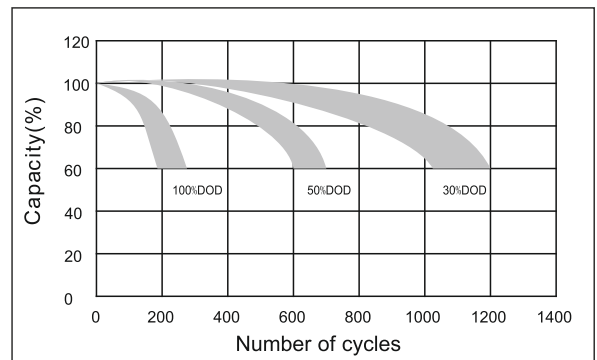
## Charging characteristic



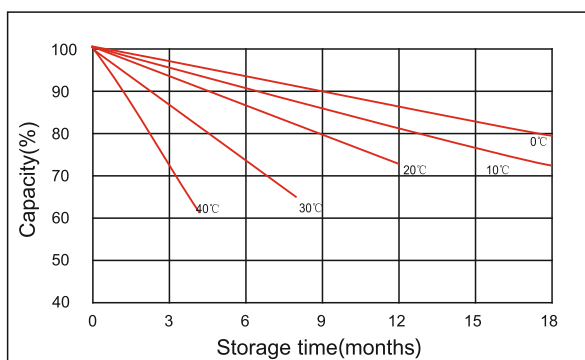
## The effect of temperature on capacity



## The effect of discharge depth on cycle life



## Curves of self-discharge



## The effect of temperature on float life

