

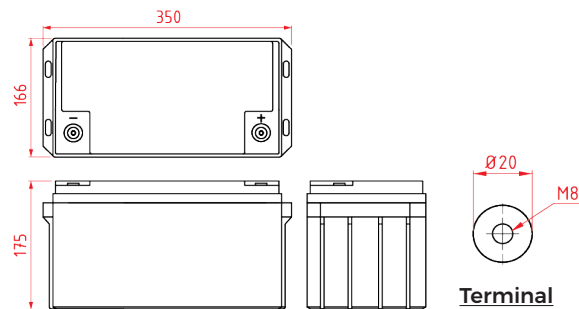
DEEP CYCLE BATTERY

APPLICATIONS

- UPS
- Power system
- Telecommunication system
- Emergency lighting
- Solar/Wind Generation storage cyclic
- Other general purpose

SPECIFICATION

Nominal voltage	12V
Nominal capacity	65Ah
Terminal	M8
Dimension (LxWxH)	350 x 167 x 180 mm
Weight	20.6 kg (Approx.)
Container material	ABS
Rated capacity	65.0Ah (10 hour rate) 53.4Ah (5 hour rate) 43.8Ah (1H hour rate)
Internal resistance	6.5 mΩ (Full charge at 25°C)
Max. discharge current	780 A (5s)
Operating temperature	Discharge : -20~50°C Charge : -20~50°C Storage : -20~50°C
Charge method (25°C)	Charge current : Max. 16.3A, recommended 6.5A Standby use : 13.5~13.8V, recommended 13.8V Equalize charge : 13.8~14.1V, recommended 14.1V Cycle use : 14.4~15.0V, recommended 14.7V
Self discharge	3% capacity decline per month at 25°C



GENERAL FEATURES

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

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

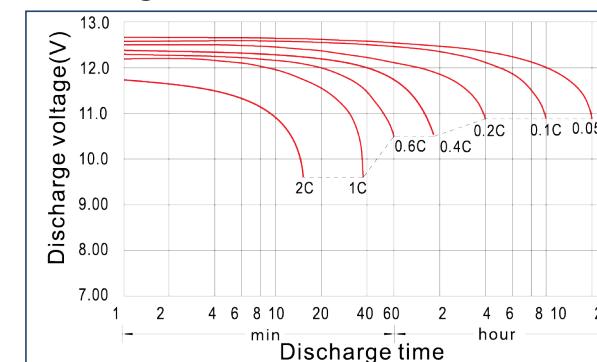
FV/ Time	5 min.	10 min.	15 min.	30 min.	45 min.	1 hour	1.5 hour	2 hour	3 hour	4 hour	5 hour	6 hour	8 hour	10 hour	20 hour
1.60V	229	152	123	74.8	53.7	43.8	27.5	25.1	18.2	13.2	12.2	9.75	8.03	6.76	3.55
1.65V	222	151	119	73.6	53.4	43.5	27.2	25.0	18.0	13.1	12.1	9.66	7.96	6.70	3.53
1.70V	213	150	117	72.3	53.0	43.2	27.0	24.8	17.8	12.9	12.0	9.56	7.90	6.63	3.51
1.75V	196	148	113	71.7	52.3	42.6	26.7	24.4	17.6	12.8	11.8	9.47	7.83	6.57	3.50
1.80V	176	144	105	68.5	50.9	41.5	26.4	24.0	17.5	12.7	11.5	9.37	7.77	6.50	3.48
1.85V	157	134	93.9	62.6	47.1	38.4	25.7	22.7	16.4	12.3	11.0	9.10	7.45	6.31	3.42

Constant Power Discharge Characteristics (Unit : W/Cell, at 25°C)

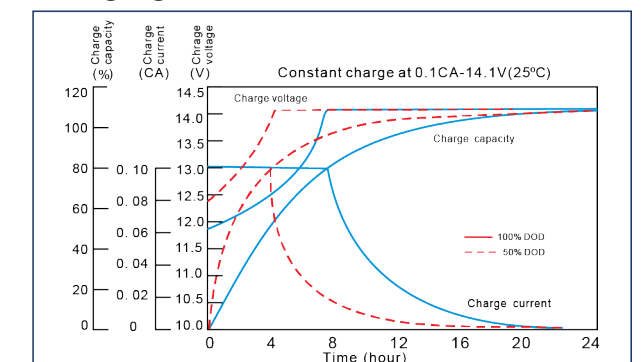
FV/ Time	5 min.	10 min.	15 min.	30 min.	45 min.	1 hour	1.5 hour	2 hour	3 hour	4 hour	5 hour	6 hour	8 hour	10 hour	20 hour
1.60V	384	258	217	135	99.2	82.7	54.9	47.5	34.7	26.0	23.2	19.1	15.6	13.0	7.02
1.65V	369	256	213	134	98.5	82.1	54.4	47.3	34.2	25.8	23.1	18.9	15.5	12.9	6.99
1.70V	367	254	210	134	97.8	81.5	53.6	47.1	34.0	25.4	22.9	18.6	15.4	12.7	6.96
1.75V	343	252	209	134	97.0	80.8	53.2	46.9	33.8	25.2	22.7	18.5	15.3	12.6	6.92
1.80V	315	250	198	130	96.2	80.2	52.8	46.8	33.7	25.0	22.5	18.3	15.2	12.5	6.89
1.85V	281	232	177	120	89.4	74.5	51.9	44.7	32.0	24.6	21.5	18.0	14.6	12.3	6.83

Disclaimer : Manufacturers have the right to self-modify the parameters of the product updates. Please refer to aki.incoe-astra.com for any updates

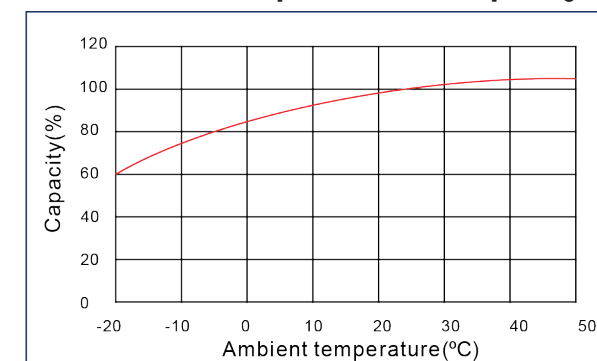
Discharge Characteristic



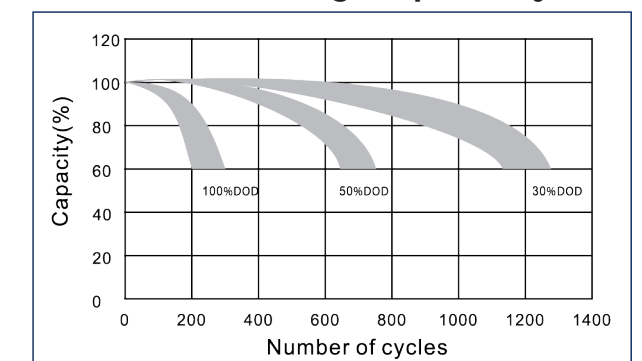
Charging Characteristic



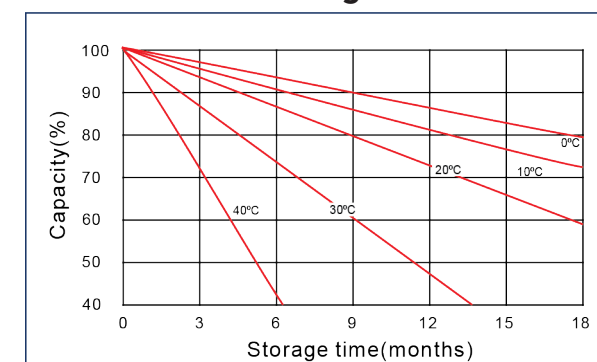
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life

