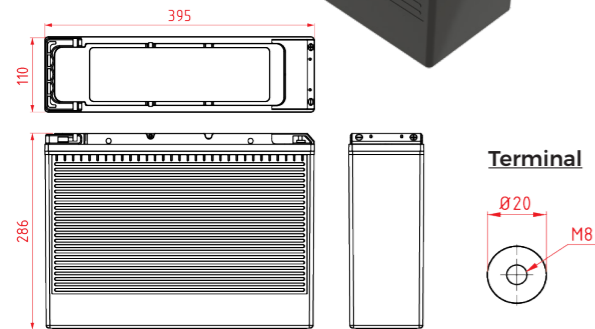


DEEP CYCLE BATTERY



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

APPLICATIONS

- Telecom outdoor integration site
- BTS tower
- Power system
- UPS/EPS
- Emergency lighting
- Solar/Wind Generation storage cyclic
- Other general purpose

SPECIFICATION

Nominal voltage	12V
Nominal capacity	105Ah
Terminal	M8
Dimension (LxWxH)	395 x 110 x 286 mm
Weight	33 kg (Approx.)
Container material	ABS
Rated capacity	105Ah (10 hour rate)
	81.6Ah (3 hour rate)
	66.9Ah (1H hour rate)
Internal resistance	6.0 mΩ (Full charge at 25°C)
Max. discharge current	1250 A (5s)
Operating temperature	Discharge : -20~50°C
	Charge : -20~50°C
	Storage : -20~50°C
Charge methode (25°C)	Charge current : Max. xA, recommended 6.5A
	Standby use : 13.6~13.8V, recommended 13.8V
	Equalize charge : xV, recommended xV
	Cycle use : 14.6~14.8V, recommended 14.8V
Self discharge	3% capacity decline per month at 25°C

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

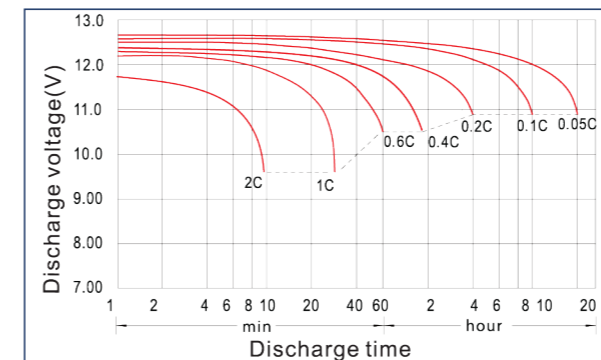
FV/ Time	5 min.	10 min.	15 min.	30 min.	45 min.	1 hour	1.5 hour	2 hour	3 hour	4 hour	5 hour	6 hour	8 hour	10 hour	20 hour
1.60V	246	207	173	105	82.4	66.9	42.0	38.4	27.9	20.1	18.7	14.9	12.3	11.0	5.7
1.65V	239	206	169	103	81.2	65.8	41.5	38.2	27.6	20.0	18.5	14.8	12.1	10.8	5.61
1.70V	229	204	165	101	80.1	64.6	41.3	37.9	27.2	19.9	18.3	14.6	12.0	10.7	5.49
1.75V	211	201	159	100	79.0	63.6	40.9	37.3	26.9	19.7	18.1	14.5	11.9	10.6	5.37
1.80V	188	197	149	95	77.9	62.4	40.5	36.7	26.7	19.4	17.7	14.4	11.8	10.5	5.26
1.85V	169	182	132	88	71.9	58.6	39.3	34.8	25.1	18.8	16.7	13.9	11.4	10.2	5.13

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

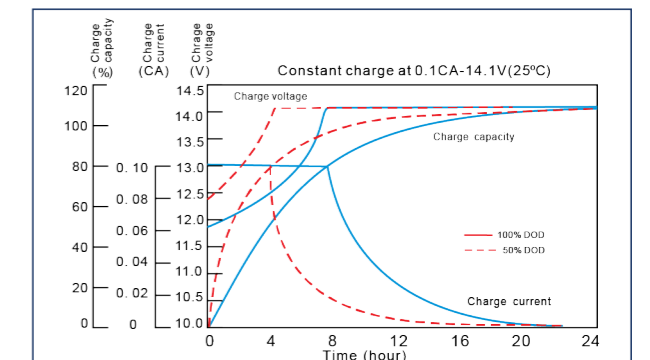
FV/ Time	5 min.	10 min.	15 min.	30 min.	45 min.	1 hour	1.5 hour	2 hour	3 hour	4 hour	5 hour	6 hour	8 hour	10 hour	20 hour
1.60V	412	351	305	190	152	128	81.9	74.6	53.1	38.9	35.5	28.9	23.9	21.0	11.1
1.65V	397	348	301	189	151	125	81.0	74.1	52.3	38.5	35.3	28.6	23.7	20.9	10.9
1.70V	394	346	297	188	150	124	80.6	73.5	52.0	38.3	34.9	28.4	23.6	20.5	10.7
1.75V	368	343	295	187	148	122	79.6	72.4	51.7	37.9	34.8	28.1	23.4	20.4	10.4
1.80V	338	340	374	183	147	120	78.8	71.3	51.5	37.6	34.5	27.9	23.2	20.1	10.3
1.85V	302	318	249	168	137	114	77.4	68.3	49.1	36.9	32.8	27.3	22.3	19.8	10.2

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

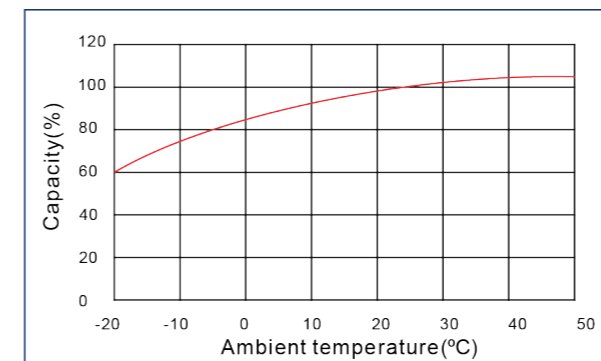
Discharge Characteristic



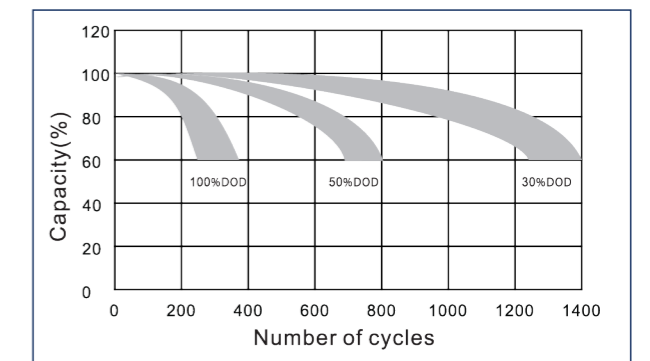
Charging Characteristic



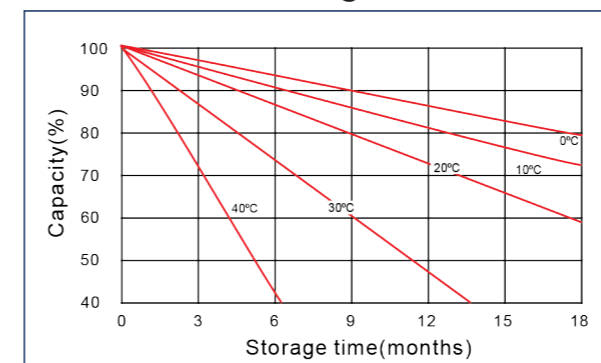
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life

