

# AB12240/250/260/280

## 12V-24/25/26/28Ah (20hr)



### Specifications

<b>Nominal Voltage</b>		<b>12V</b>
<b>Rated Capacity 77°F(25°C) (20HR)</b>		<b>24/25/26/28Ah</b>
<b>Dimensions (mm)</b>	<b>Length</b>	<b>167±2</b>
	<b>Width</b>	<b>176.5±2</b>
	<b>Height</b>	<b>125±2</b>
	<b>Total Height</b>	<b>125±2</b>
<b>Approx. Weight (kg)</b>		<b>8.1±3%</b>
<b>Terminal</b>		<b>T10</b>

### Characteristic

<b>Capacity 77°F(25°C)</b>	<b>20HR (1.25A)</b>	<b>25.0Ah</b>
	<b>10HR (2.33A)</b>	<b>23.3Ah</b>
	<b>5HR (4.25A)</b>	<b>21.3Ah</b>
	<b>1HR (15.3A)</b>	<b>15.3Ah</b>
	<b>15 min rate (46.3A)</b>	<b>11.6Ah</b>
<b>Internal Resistance</b>	<b>Full Charged Battery 77°F(25°C)</b>	<b>Approx. 12mΩ</b>
<b>Temperature dependence of capacity (20HR)</b>	<b>104°F(40°C)</b>	<b>102%</b>
	<b>77°F(25°C)</b>	<b>100%</b>
	<b>32°F(0°C)</b>	<b>85%</b>
	<b>5°F(-15°C)</b>	<b>65%</b>
<b>Self-Discharge 68°F(20°C) (Capacity after)</b>	<b>3 months</b>	<b>90%</b>
	<b>6 months</b>	<b>80%</b>
	<b>12 months</b>	<b>60%</b>
<b>Max. Discharge Current, 77°F(25°C)</b>		<b>375A(5s)</b>
<b>Floating design life, 77°F(25°C)</b>		<b>5 years</b>
<b>Constant Voltage Charge, 77°F(25°C)</b>	<b>Cycle</b>	<b>14.5~14.9V(-24mV/°C) max. current: 7.5 A</b>
	<b>Float</b>	<b>13.6~13.8V(-18mV/°C)</b>

### Battery Model: AB12240

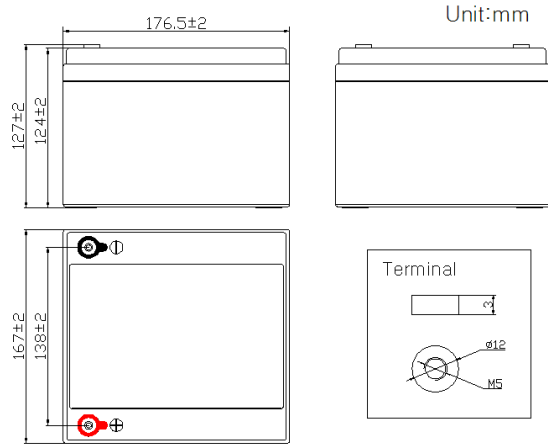
#### Constant Current Discharge (Amperes) at 25°C (77°F)

End point Volts/cell	5min	10min	15min	30min	1h	2h	3h	5h	6h	8h	10h	12h	24h
1.60	85.0	60.0	46.0	27.9	15.8	9.4	6.8	4.5	3.9	3.1	2.6	2.2	1.2
1.65	79.5	56.3	43.3	26.3	15.1	9.0	6.54	4.34	3.80	3.03	2.52	2.13	1.19
1.70	74.0	52.5	40.5	24.7	14.4	8.7	6.31	4.24	3.70	2.95	2.48	2.10	1.17
1.75	68.5	48.8	37.8	23.1	13.7	8.28	6.09	4.13	3.60	2.88	2.44	2.07	1.16
1.80	63.0	45.0	35.0	21.5	13.0	7.90	5.86	4.02	3.50	2.80	2.40	2.04	1.14

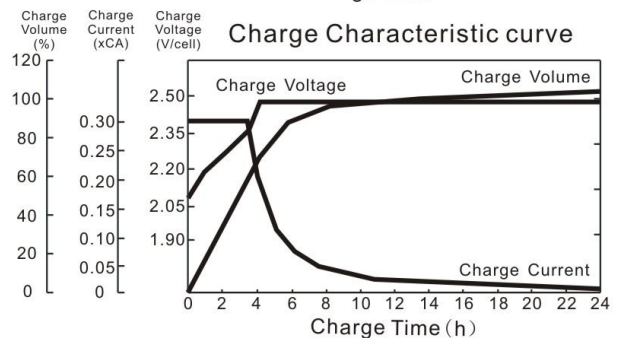
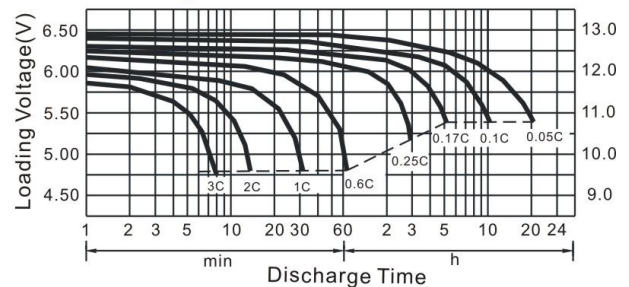
#### Constant Power Discharge (Watts per cell) at 25°C (77°F)

End point Volts/cell	5min	10min	15min	30min	1h	2h	3h	5h	6h	8h	10h	12h	24h
1.60	150	107	82.2	50.0	29.0	17.7	13.0	8.83	7.75	6.17	5.11	4.32	2.42
1.65	141	101	77.7	47.4	27.9	17.1	12.6	8.62	7.56	6.03	5.04	4.27	2.39
1.70	131	94.3	73.1	44.8	26.8	16.4	12.2	8.42	7.37	5.89	4.97	4.21	2.37
1.75	122	87.9	68.6	42.1	25.6	15.8	11.8	8.21	7.17	5.74	4.89	4.16	2.34
1.80	112	81.5	64.0	39.5	24.5	15.1	11.4	8.00	6.98	5.60	4.82	4.10	2.31

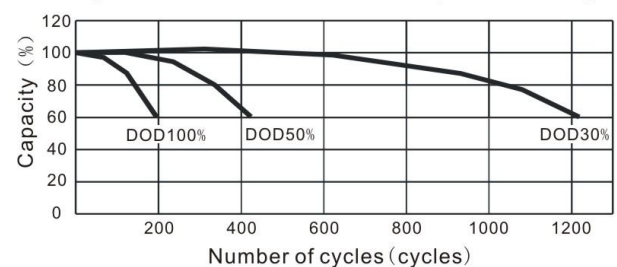
(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.



### Discharge Characteristics 77°F (25°C)



### Cycle service life in relation to depth of discharge



# AB12240/250/260/280

## 12V-24/25/26/28Ah (20hr)

### Battery Model: AB12250

#### Constant Current Discharge Characteristics (A) at 25°C (77°F)

End point Volts/cell	5min	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60	95.0	60.0	46.3	25.00	15.82	8.93	6.53	4.40	2.93	2.40	1.28
1.70	90.3	57.0	44.2	23.90	15.25	8.58	6.38	4.33	2.90	2.38	1.27
1.75	88.5	55.8	43.4	23.40	14.98	8.43	6.25	4.25	2.85	2.33	1.26
1.80	86.8	54.5	42.6	22.95	14.73	8.28	6.15	4.18	2.83	2.30	1.25

#### Constant Power Discharge (CP,Unit:W) at 25°C (77°F)

End point Volts/cell	5min	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60	172.5	110.0	85.5	46.67	29.80	16.95	12.50	8.50	5.73	4.73	2.55
1.70	165.5	105.5	82.5	45.00	28.98	16.43	12.33	8.43	5.70	4.70	2.54
1.75	163.8	104.0	81.7	44.45	28.70	16.30	12.20	8.35	5.65	4.65	2.52
1.80	162.0	102.7	80.9	44.00	28.48	16.13	12.10	2.28	5.60	4.60	2.50

(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

### Battery Model: AB12260/280

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

End point Volts/cell	5min	10min	15min	30min	1h	2h	3h	5h	6h	10h	20h
1.60	94.08	64.46	45.10	28.63	15.66	9.77	7.60	5.07	3.38	2.94	1.54
1.67	90.06	61.71	43.18	27.41	14.99	9.36	7.28	4.85	3.24	2.81	1.47
1.70	87.92	60.24	42.15	26.76	14.64	9.13	7.10	4.73	3.16	2.75	1.44
1.75	85.78	58.77	41.12	26.11	14.28	8.91	6.93	4.62	3.09	2.68	1.40
1.80	85.06	58.28	40.78	25.89	14.16	8.84	6.87	4.58	3.06	2.66	1.39

#### Constant Power Discharge (CP,Unit:W) at 25°C (77°F)

End point Volts/cell	5min	10min	15min	30min	1h	2h	3h	5h	6h	10h	20h
1.60	183.4	125.7	87.95	55.83	30.54	19.06	14.82	9.88	6.60	5.73	2.99
1.67	175.6	120.3	84.20	53.45	29.24	18.25	14.19	9.46	6.32	5.49	2.87
1.70	171.4	117.5	82.20	52.18	28.54	17.81	13.85	9.23	6.17	5.36	2.80
1.75	167.3	114.6	80.19	50.91	27.85	17.38	13.51	9.01	6.02	5.23	2.73
1.80	165.9	113.6	79.52	50.48	27.61	17.23	13.40	8.93	5.97	5.18	2.71

(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

\*ABS (UL94-HB) & Flame Retardant (94-V0)

\*Product specifications are subject to change without further notice

\*Image is for illustration purposes only