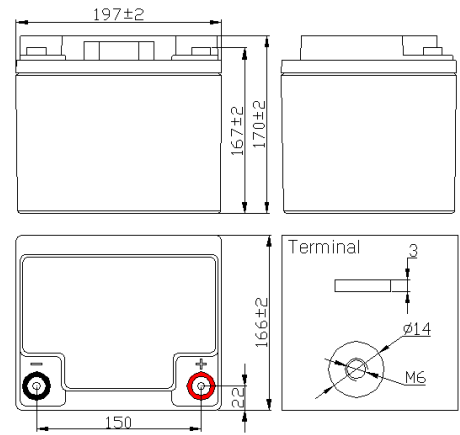


AB12400/420/450 12V-40/42/45Ah (10hr)



Unit:mm



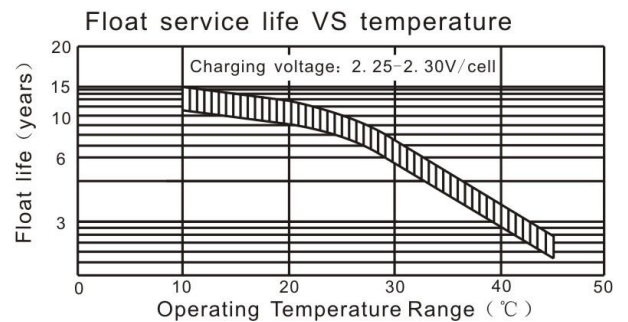
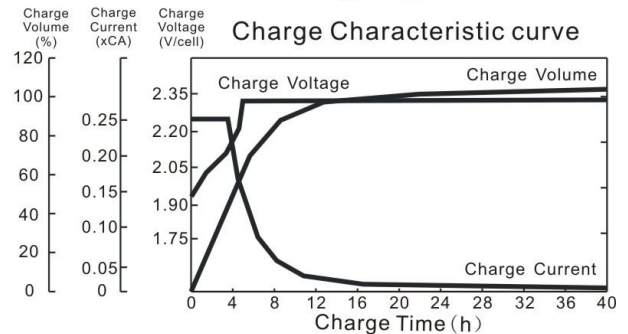
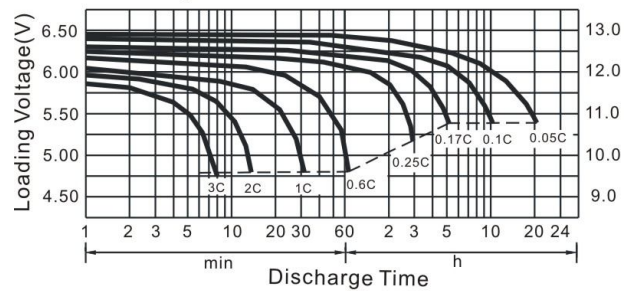
Specifications

Nominal Voltage		12V
Rated Capacity 77°F(25°C) (10HR)		40/42/45Ah
Dimensions (mm)	Length	197±2
	Width	165.5±2
	Height	170±2
	Total Height	170±2
Approx. Weight (kg)		14.7±5%
Terminal		T11

Characteristic

Capacity 77°F(25°C)	20HR (2.385A)	47.7Ah
	10HR (4.500A)	45.0Ah
	5HR (7.650A)	38.3Ah
	1HR (24.75A)	24.8Ah
	15 min rate (78.75A)	19.7Ah
Internal Resistance	Full Charged Battery 77°F(25°C)	Approx. 8mΩ
Temperature dependence of capacity (10HR)	104°F(40°C)	102%
	77°F(25°C)	100%
	32°F(0°C)	85%
	5°F(-15°C)	65%
Self-Discharge 68°F(20°C) (Capacity after)	3 months	90%
	6 months	80%
	12 months	60%
Max. Discharge Current, 77°F(25°C)		360A(5s)
Floating design life, 77°F(25°C)		10 years
Constant Voltage Charge, 77°F(25°C)	Cycle	14.4~14.7V(-24mV/°C) max. current:11.25 A
	Float	13.6~13.8V(-18mV/°C)

Discharge Characteristics 77°F (25°C)



Battery Model: AB12400

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

End point Volts/cell	5min	10min	15min	30min	1h	2h	3h	5h	8h	10h	12h	24h
1.60	131	93.0	73.3	42.0	25.9	14.5	10.7	7.36	5.05	4.28	3.61	1.87
1.65	124	88.4	68.9	40.7	25.6	14.2	10.4	7.24	4.98	4.22	3.55	1.86
1.70	119	83.7	66.7	39.0	25.2	14.0	10.2	7.11	4.93	4.21	3.52	1.84
1.75	110	79.1	64.9	38.0	24.9	13.7	9.95	7.00	4.81	4.07	3.48	1.82
1.80	101	71.9	58.7	36.3	23.8	13.2	9.72	6.80	4.70	4.00	3.40	1.79

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

End point Volts/cell	5min	10min	15min	30min	1h	2h	3h	5h	8h	10h	12h	24h
1.60	251	177	141	92.9	55.6	31.2	23.0	15.0	10.2	8.71	7.38	3.97
1.65	233	163	128	82.9	51.2	29.1	21.7	14.1	9.90	8.50	7.25	3.90
1.70	215	155	124	80.3	50.3	28.3	20.9	13.9	9.79	8.42	7.16	3.85
1.75	198	148	120	77.7	49.5	27.8	20.6	13.7	9.58	8.21	6.98	3.76
1.80	186	140	116	75.0	48.6	27.3	20.2	13.6	9.43	8.04	6.84	3.68

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

AB12400/420/450

12V 40/42/45Ah (10hr)

Battery Model: AB12420

Constant Current Discharge ratings-amperes at 25°C (77°F)

End point Volts/cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60	165.90	116.55	88.52	46.41	26.36	11.55	7.56	4.33	2.18
1.65	157.50	111.30	84.11	44.63	25.41	11.24	7.35	4.29	2.16
1.70	148.05	104.79	79.80	42.95	24.36	10.82	7.14	4.25	2.15
1.75	138.60	98.60	75.50	41.16	23.42	10.36	6.93	4.20	2.13
1.80	130.20	93.35	71.19	39.38	22.47	9.89	6.72	4.20	2.12

Constant Power Discharge ratings-watts at 25°C (77°F)

End point Volts/cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60	299.25	210.00	160.65	84.95	48.41	21.42	14.05	8.10	4.10
1.65	282.45	199.50	152.25	81.27	46.41	20.58	13.65	7.99	4.05
1.70	263.55	187.95	143.85	77.70	44.42	19.85	13.13	7.86	4.00
1.75	245.70	175.35	135.45	74.03	42.42	18.90	12.71	7.73	3.95
1.80	227.85	164.85	127.05	70.56	40.43	17.96	12.18	7.54	3.90

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

Battery Model: AB12450

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	153.0	99.0	78.7	45.0	26.1	16.21	11.95	8.08	5.40	4.70	2.45
1.70	145.3	94.1	75.2	43.1	25.2	15.60	11.68	7.93	5.34	4.64	2.43
1.75	138.6	88.2	73.9	42.2	24.8	15.30	11.45	7.79	5.24	4.57	2.41
1.80	130.1	81.5	72.6	41.3	24.4	15.04	11.25	7.65	5.18	4.50	2.39

Constant Wattage Discharge Characteristics (Watt) at 25°C (77°F)

End point Volts/cell	5min	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60	271.5	179.8	144.3	82.8	48.3	30.27	22.51	15.35	10.35	9.16	4.79
1.70	260.5	172.5	139.1	80.0	47.1	29.37	22.19	15.20	10.32	9.11	4.78
1.75	250.7	163.2	137.9	79.1	46.7	29.07	21.95	15.05	10.21	9.07	4.78
1.80	237.3	152.1	136.7	78.2	46.3	28.82	21.75	14.92	10.18	9.00	4.77

(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