



VRLA BATTERY

General purpose application series

UP12-7.2 (12v7.2AH)



Characteristics

Nominal Voltage		12V
Nominal Capacity (20 hour rate)		7.5Ah
Capacity 25°C (77°F)	10 hour rate (0.71A)	7.1Ah
	5 hour rate (1.34A)	6.7Ah
	1 hour rate (4.95A)	4.95Ah
Internal Resistance	Full Charged Battery 25°C	≤21mΩ
Capacity affected by Temperature (10hour)	40°C (104°F)	102%
	25°C (77°F)	100%
	0°C (32°F)	85%
	-15°C (5°F)	65%
Self-Discharge 25°C (77°F) Capacity	after 3 month storage	90%
	after 6 month storage	80%
	after 12 month storage	62%
Charge (Constant Voltage) 25°C (77°F)	Float	Initial Charging Current Less than 2.25A Voltage 13.6-13.8V
	Cycle	Initial Charging Current Less than 2.25A Voltage 14.4-15.0V

Packaging

Battery Dimensions	Length	151mm
	Width	65mm
	Height	95mm
	Total Height	101mm
Box Dimensions	Length	364mm
	Width	165mm
	Height	141mm
QuantityPerBox		5pcsperbox
NetweightPerCell		2.07kg±50g
NetweightPerBox		10.35kg
GrossWeight		10.8kg

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

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	24.75	16.50	12.42	8.25	5.78	4.95	3.09	2.12	1.41	0.95	0.79	0.41
1.65V	24.30	16.20	12.19	8.10	5.67	4.86	3.04	2.08	1.39	0.93	0.77	0.41
1.70V	23.85	15.90	11.96	7.95	5.57	4.77	2.98	2.04	1.36	0.92	0.76	0.40
1.75V	23.40	15.60	11.74	7.80	5.46	4.68	2.93	2.00	1.34	0.90	0.74	0.39
1.80V	22.50	15.00	11.29	7.50	5.25	4.50	2.81	1.93	1.28	0.86	0.71	0.38

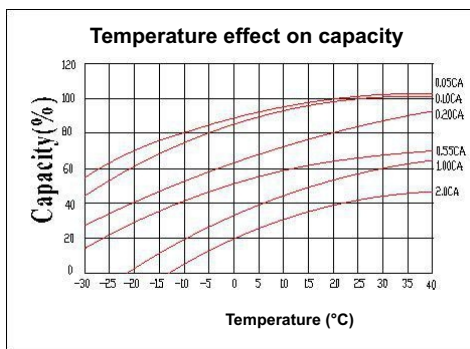
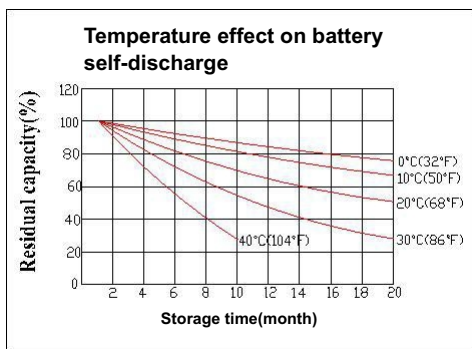
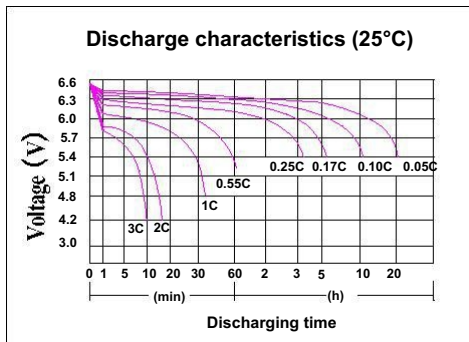
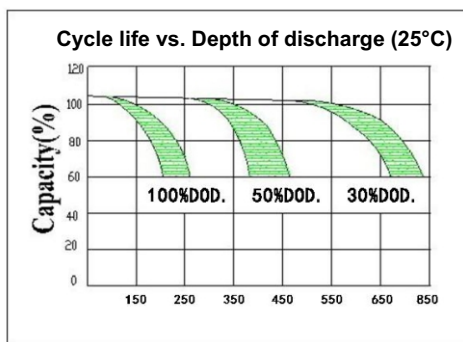
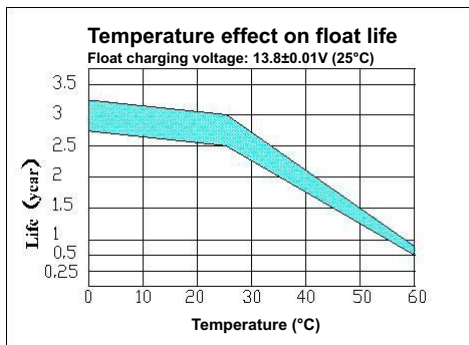
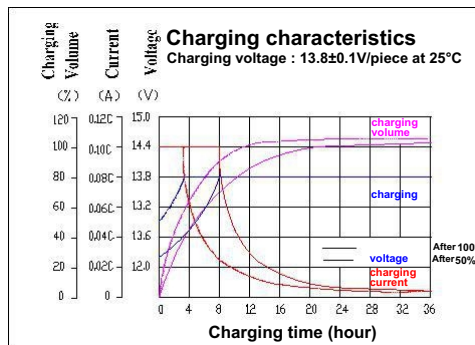
Discharge Constant Power per Cell (Watts at 77°F 25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	47.64	31.76	23.90	15.88	11.12	9.53	5.96	4.08	2.72	1.83	1.51	0.79
1.65V	46.78	31.19	23.46	15.59	10.91	9.36	5.85	4.01	2.67	1.80	1.48	0.78
1.70V	45.91	30.61	23.03	15.30	10.71	9.18	5.74	3.93	2.62	1.76	1.46	0.77
1.75V	45.05	30.03	22.60	15.02	10.51	9.01	5.63	3.86	2.57	1.73	1.43	0.75
1.80V	43.31	28.88	21.73	14.44	10.11	8.66	5.41	3.71	2.47	1.66	1.37	0.72

NOTE The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact us sales@hitecbatteries.co.za salescpt@hitecbatteries.co.za

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Battery Construction

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Si-Rubber	Copper	Fiberglass	Sulfuric acid

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