



VRLA BATTERY

Solar GEL Series

General purpose application series

UP12-200 GEL (12v200AH)



Characteristics

Nominal Voltage		12V
Nominal Capacity (10 hour rate)		200Ah
Capacity 25°C (77°F)	20 hour rate (11.0A)	220Ah
	5 hour rate (35.4A)	177Ah
	1 hour rate (132A)	132Ah
Internal Resistance	Full Charged Battery 25°C	≤ 2.5mΩ
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 40A Voltage 13.6-13.8V
	Cycle	Initial Charging Current Less than 40A Voltage 14.4-14.9V

Packaging

Battery Dimensions	Length	522mm
	Width	240mm
	Height	219mm
	Total Height	224mm
Box Dimensions	Length	537mm
	Width	255mm
	Height	299mm
QuantityPerBox		1PCperbox
NetweightPerCell		59kg±500g
NetweightPerBox		59.5kg
GrossWeight		59.5kg

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	577.9	371.6	309.5	206.4	148.1	132.0	81.8	55.0	37.4	24.6	22.0	12.1
1.65V	567.4	364.8	303.9	202.6	145.4	129.6	80.4	54.0	36.7	24.2	21.6	11.9
1.70V	556.9	358.1	298.3	198.9	142.7	127.2	78.9	53.0	36.0	23.7	21.2	11.7
1.75V	546.4	351.3	292.7	195.1	140.0	124.8	77.4	52.0	35.4	23.3	20.8	11.4
1.80V	525.4	337.8	281.4	187.6	134.6	120.0	74.4	50.0	34.0	22.4	20.0	11.0

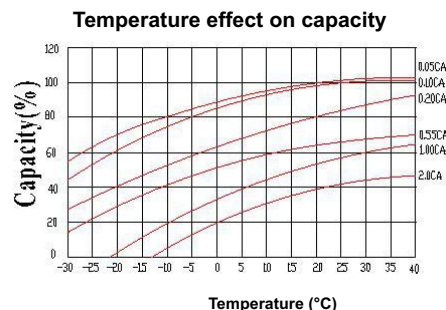
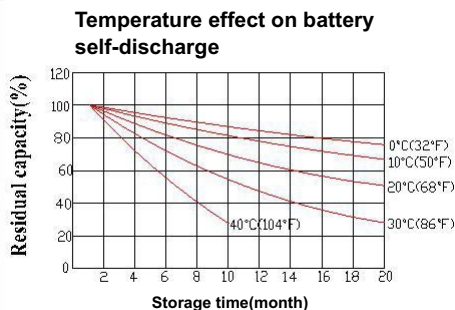
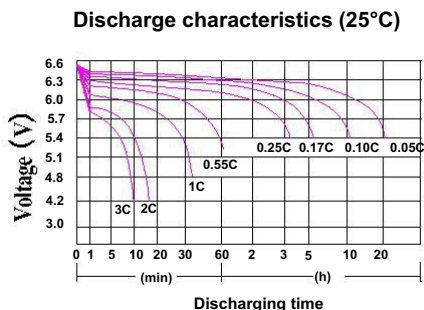
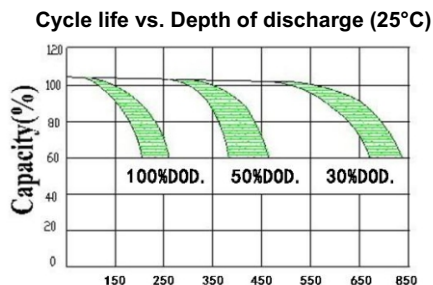
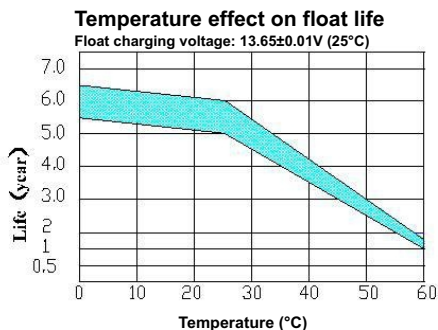
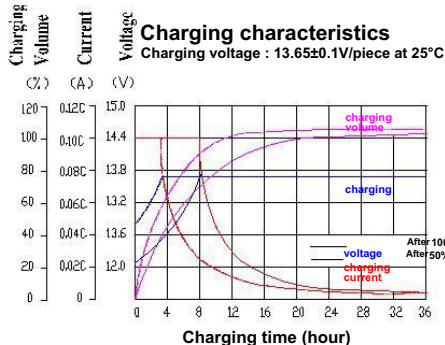
Discharge Constant Power per Cell (Watts at 77°F 25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	1112.5	715.3	595.9	397.2	285.0	254.1	157.5	105.9	72.0	47.4	42.4	23.3
1.65V	1092.3	702.3	585.0	390.0	279.8	249.5	154.7	104.0	70.7	46.6	41.6	22.9
1.70V	1072.1	689.3	574.2	382.8	274.7	244.9	151.8	102.0	69.4	45.7	40.8	22.4
1.75V	1051.9	676.3	563.4	375.6	269.5	240.2	148.9	100.1	68.1	44.8	40.0	22.0
1.80V	1011.4	650.3	541.7	361.1	259.1	231.0	143.2	96.3	65.5	43.1	38.5	21.2

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	GEL

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