



VRLA BATTERY UPS GEL Series

General purpose application series

UP12-100 GEL (12v100AH)



Characteristics

Nominal Voltage		12V
Nominal Capacity (10 hour rate)		80Ah
Capacity 25°C (77°F)	20 hour rate (4.62A)	92'4Ah
	5 hour rate (14.5A)	72'5Ah
	1 hour rate (51.0A)	51'0Ah
Internal Resistance		Full Charged Battery 25°C ≤ 5.5mΩ
		40°C (104°F) 102%
Capacity affected by Temperature (10 hour)	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 22.0A Voltage 13.6-13.8V
	Cycle	Initial Charging Current Less than 22.0A Voltage 14.4-14.9V

Packaging

Battery Dimensions	Length	331mm
	Width	174mm
	Height	214mm
	Total Height	219mm
Box Dimensions	Length	346mm
	Width	188mm
	Height	289mm
Quantity Per Box		1 PC per box
Net weight Per Cell		25kg±400g
Net weight Per Box		25kg
Gross Weight		26.0kg

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	285.8	190.4	143.4	89.3	89.3	54.5	34.4	23.1	16.0	9.8	8.8	4.9
1.65V	263.5	178.5	137.5	86.8	86.8	53.9	33.8	22.7	15.5	9.7	8.7	4.8
1.70V	267.9	175.5	131.5	84.4	84.4	52.5	33.1	22.3	15.1	9.6	8.6	4.7
1.75V	236.7	157.6	125.5	82.1	82.1	51.0	32.3	21.2	14.5	9.6	8.5	4.6
1.80V	223.3	148.7	119.5	79.7	79.7	50.1	31.6	20.1	14.3	9.5	8.4	4.6

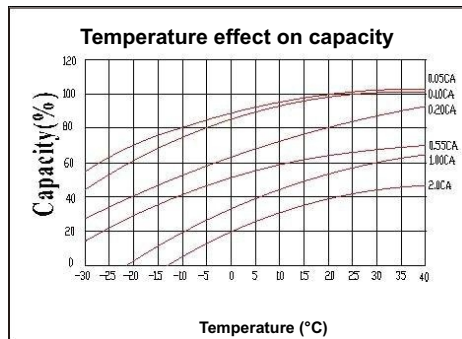
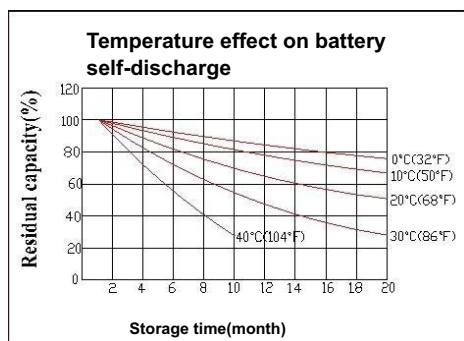
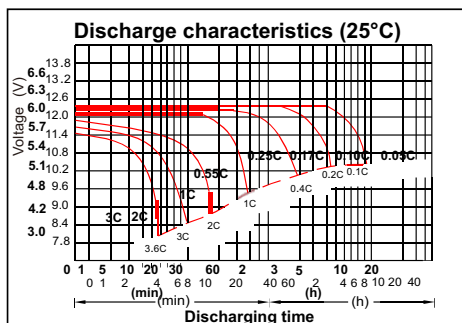
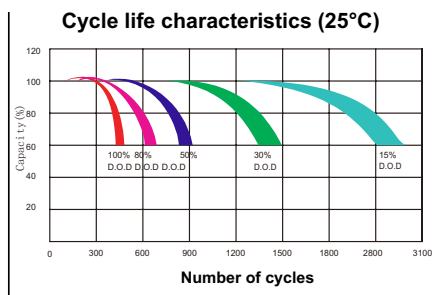
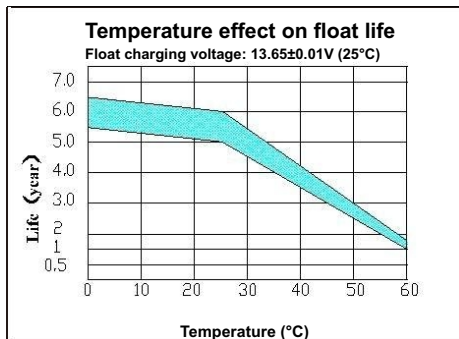
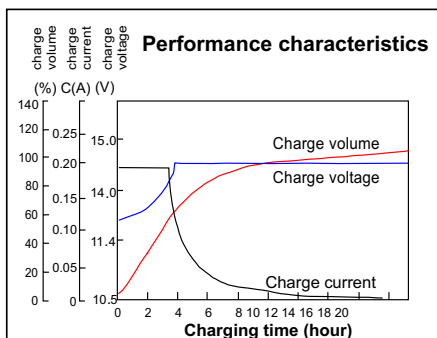
Discharge Constant Power per Cell (Watts at 77°F 25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V	533.0	355.1	267.6	166.5	119.5	105.4	64.2	47.0	30.2	18.4	16.5	9.1
1.65V	491.3	327.3	256.5	162.0	116.2	102.6	63.0	46.1	29.8	18.2	16.3	9.0
1.70V	465.7	315.9	245.3	157.5	113.0	99.7	61.8	45.3	29.4	18.1	16.1	9.0
1.75V	441.4	294.1	234.1	153.1	109.9	96.9	60.4	44.2	28.9	17.9	15.9	8.9
1.80V	416.4	277.4	223.0	148.6	106.6	94.1	58.9	43.1	28.5	17.7	15.8	8.9

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

BATTERIES SOLAR & INVERTERS ACCESSORIES

POWERING BUSINESS • POWERING THE HOME • POWERING THE FUTURE



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

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