

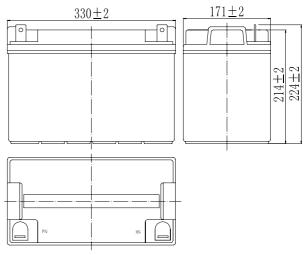
GB12100.0(12V100Ah)

Specifications

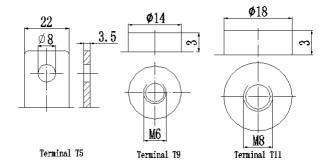
Nominal Voltage	<u>r</u>								
$ \begin{array}{c} \text{Capacity} \\ \text{(25 C)} \end{array} \begin{array}{c} \text{5HR}(10.5\text{V}) \\ \text{1HR}(9.60\text{V}) 62\text{Ah} \end{array} \\ \\ \text{Length} \\ \text{Width} \\ \text{171 \pm 2mm} (6.73\text{inch}) \\ \\ \text{214 \pm 2mm} (8.43\text{inch}) \\ \\ \text{Total Height} \end{array} \begin{array}{c} \text{T5: 224 \pm 2mm} (8.82\text{inch}) \\ \\ \text{T9: 220 \pm 2mm} (8.66\text{inch}) \\ \\ \text{T9: 210 \pm 2mm} (8.66\text{inch}) \\ \\ \text{T9: 210 \pm 2mm} (8.66\text{inch}) \\ \\ \text{T0: 20 \pm 2mm} (8.82\text{inch}) \\ \\ \text{T0: 20 \pm 2mm} (8.22\text{inch}) \\ \\ \text{T0: 20 \pm 2mm} (8.22\text{inch}) \\ \\ \text{T0: 20 \pm 2mm} (8.2$	Nomin	al V	oltage	12 V					
C25 C SHR(10.5V) 87Ah HR(9.60V) 62Ah Length 330±2mm (12.99inch) Width 171±2mm (6.73inch) Total Height 214±2mm (8.43inch) Total Height T5: 224±2mm (8.82inch) T9: 220±2mm (8.66inch) Approx. Weight 30.kg (66.0lbs) ±4% Terminal type T5/T9/T11 Internal resistance (Fully charged, 25 C) Approx. 4.5m Ω Capacity affected by temperature (10HR) -15 C Self-discharge (25 C) 3 month Remaining Capacity: 91% Self-discharge (25 C) 12 month Remaining Capacity: 65% Nominal operating temperature 25 C±3 C(77 F±5 F) Operating temperature range Storage -10	Composites	10	0HR(10.8V)	100 Ah					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		5	HR(10.5V)	87Ah					
Width $171\pm2\text{mm}$ (6.73inch)Height $214\pm2\text{mm}$ (8.43inch)Total Height $175:224\pm2\text{mm}$ (8.82inch)Total Height $15:224\pm2\text{mm}$ (8.82inch)T9: $220\pm2\text{mm}$ (8.66inch)Approx. Weight $30.\text{kg}$ (66.0lbs) $\pm 4\%$ Terminal typeT5/T9/T11Internal resistance (Fully charged, 25 C)Approx. $4.5\text{m}\Omega$ Capacity 40 C102% 40 CApprox. $4.5\text{m}\Omega$ Capacity 40 C85% 100% <b< td=""><td>(23 0)</td><td>1</td><td>HR(9.60V) 62</td><td colspan="5">Ah</td></b<>	(23 0)	1	HR(9.60V) 62	Ah					
DimensionHeight214±2mm (8.43inch)Total Height214±2mm (8.43inch)Total HeightT5: 224±2mm (8.82inch)T9: 220±2mm (8.66inch)Approx. Weight30.kg (66.0lbs) ±4%Terminal typeT5/T9/T11Internal resistance (Fully charged, 25 C)Approx. 4.5m ΩCapacity affected by temperature (10HR)40 C85%Self-discharge (25 C)3 monthRemaining Capacity: 91%Self-discharge (25 C)A monthRemaining Capacity: 91%Remaining Capacity: 82%Nominal operating temperature25 C±3 C(77 F±5 F)Operating temperatureDischarge charge charge charge colspan="3">-15			Length	330±2mm (12.99inch)					
			Width	171 ± 2 mm (6.73inch)					
Total Height T9: 220 ± 2 mm (8.66inch) Approx. Weight Terminal type T5/T9/T11 Internal resistance (Fully charged, 25 C) Capacity affected by temperature (10HR) Self-discharge (25 C) Nominal operating temperature T9: 220 ± 2 mm (8.66inch) Approx. 4.5 m Ω	Dimension		Height	214±2mm (8.43inch)					
Approx. Weight Approx. Weight Terminal type T5/T9/T11 Internal resistance (Fully charged, 25 C) Capacity affected by temperature (10HR) Self-discharge (25 C) Nominal operating temperature Operating temperature Toperating temperature Charge Storage Float charging voltage(25 C) Toperating voltage(25 C) Float charging voltage(25 C) Maximum charging current Terminal type T5/T9/T11 Approx. $4.5 \text{m} \Omega$ Bapprox. $4.5 $		7	Cotal Unight	T5: 224 ± 2 mm (8.82inch)					
Terminal typeT5/T9/T11Internal resistance (Fully charged, 25 C)Approx. $4.5 \text{m} \Omega$ Capacity affected by temperature (10HR) 40 C 25 C -15 C 100% 85% Self-discharge (25 C)3 month 6 month 12 monthRemaining Capacity: 91% Remaining Capacity: 82%Nominal operating temperature $25 \text{ C} \pm 3 \text{ C} (77 \text{ F} \pm 5 \text{ F})$ Operating temperatureDischarge -15 A Storage $50 \text{ C} (5 \text{ A}$ -10 A -20 A -10 A -20 A<		1	otal Height	T9: 220 ± 2mm (8.66inch)					
Internal resistance (Fully charged, 25 C)Approx. $4.5 \text{m} \Omega$ Capacity affected by temperature (10HR) 40 C 25 C -15 C 100% 85% Self-discharge (25 C) 3 month 6 month 12 month Remaining Capacity: 91% Nominal operating temperature $25 \text{ C} \pm 3 \text{ C} (77 \text{ F} \pm 5 \text{ F})$ Operating temperatureDischarge -15 A -10 A $50 \text{ C} (5 \text{ A}$ $-12 \text{ F})$ Operating temperatureCharge Storage -10 A -10 A $50 \text{ C} (14 \text{ A}$ $-122 \text{ F})$ Float charging voltage(25 C) -10 A -10 A -10 C -10 A -10 C -10 A Cyclic charging voltage(25 C) -10 C -10 C -10 C -10 C Maximum charging current -10 C -10 C -10 C -10 C Maximum charging current -10 C -10 C -10 C -10 C	Appro	x. V	Veight	30.kg (66.0lbs) $\pm 4\%$					
(Fully charged, 25 C) Capacity affected by temperature (10HR) Self-discharge (25 C) Nominal operating temperature Tange Charge Storage Float charging voltage(25 C) Cyclic charging voltage(25 C) Maximum charging current Approx. $4.5m \Omega$ 102% 100% Remaining Capacity: 91% Remaining Capacity: 82% Femaining Capacity: 65% Approx. $4.5m \Omega$ So C So C 100% Temperature compensation: -30mV/ C Approx. $4.5m \Omega$ 102% 10	Term	inal	type	T5/T9/T11					
Capacity affected by temperature (10HR) 25 C 0 C 85% -15 C 665% Self-discharge (25 C) 12 month Remaining Capacity: 91% Remaining Capacity: 82% 12 month Remaining Capacity: 82% 12 month Remaining Capacity: 65% Nominal operating temperature Operating temperature Charge Tokarge Charge Charge -10 \triangle 50 C($14 \times 122 \text{ F}$) 13.50 to 13.80V Temperature compensation: -18mV/C Cyclic charging voltage(25 C) Maximum charging current O C 14.50 to 14.90V Temperature compensation: -30mV/ C Maximum charging current 30A				Approx. 4.5m Ω					
affected by temperature (10HR) $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Canacity		40 C	102%					
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			25 C	100%					
	temperature		0 C	85%					
Self-discharge (25 °C) $= 6 \text{ month}$ Remaining Capacity: 82% $= 12 \text{ month}$ Remaining Capacity: 65% $= 12 \text{ month}$ Remaining Capacity: 65% $= 12 \text{ month}$ Remaining Capacity: 65% $= 12 \text{ month}$ Solution $= 12 mont$			-15 C	65%					
Composition	0.10.1: 1		3 month	Remaining Capacity: 91%					
		ge	6 month	Remaining Capacity: 82%					
temperature Operating temperature Charge -15 50 C(5 122 F) Charge -10 50 C(14 122 F) Storage -20 50 C(-4 122 F) Float charging voltage(25 C) Temperature compensation: -18mV/ C 14.50 to 14.90V Temperature compensation: -30mV/ C Maximum charging current 30A	(25 0)		12 month	Remaining Capacity: 65%					
temperature range Charge Charge -10 50 C(14 122 F) Storage -20 50 C(-4 122 F) 13.50 to 13.80V Temperature compensation: -18mV/ C 14.50 to 14.90V Temperature compensation: -30mV/ C Maximum charging current 30A		-	-	25 C±3 C(77 F±5 F)					
temperature range Charge -10	Operating		Discharge	-15 △ 50 C(5 ⋌ 122 F)					
Float charging voltage(25 C) Float charging voltage(25 C) Cyclic charging voltage(25 C) Maximum charging current 13.50 to 13.80V Temperature compensation: -18mV/C 14.50 to 14.90V Temperature compensation: -30mV/C 30A	temperature	;	Charge	-10 △ 50 C(14 ⋌ 122 F))				
Float charging voltage(25 C) Temperature compensation: -18mV/ C 14.50 to 14.90V Temperature compensation: -30mV/ C Maximum charging current 30A	range		Storage)				
Cyclic charging voltage(25 C) Temperature compensation: -30mV/ C Maximum charging current 30A	Float chargin	ıg vo	oltage(25 C)	Temperature compensation: -18mV/ C					
	Cyclic charging	ng v	roltage(25 C)	Temperature compensation:					
Ti1ti-1	Maximum c	harg	ging current	30A					
Terminal material Copper	Termin	al m	aterial	Copper					
Maximum discharge current 800A(5 sec.)	Maximum d	isch	arge current	800A(5 sec.)					
Designed floating life(20 C) 12 years	Designed flo	atin	g life(20 C)	12 years					

- ◆ Absorbent glass mat technology;
- ◆ Recognized by UL & CE;
- ◆ ABS container.

Dimensions



Terminal



Constant Current Discharge Characteristics (A. 25\mathcal{L})

Constant Current Discharge Characteristics (11, 20, 5)											
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	210	165	100	62.0	36.5	25.5	20.9	17.9	12.2	10.2	5.34
9.90V	204	161	98.0	61.1	36.3	25.4	20.8	17.7	12.2	10.2	5.33
10.2V	195	155	95.0	59.5	36.0	25.2	20.6	17.6	12.1	10.1	5.32
10.5V	187	150	92.7	58.3	35.5	25.0	20.5	17.5	12.0	10.1	5.29
10.8V	176	142	89.3	56.5	34.6	24.3	19.9	17.0	11.6	10.0	5.25

Constant Power Discharge Characteristics (Watt, 25£)

F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	2268	1812	1122	707	423	300	246	211	145	122	64.1
9.90V	2200	1768	1100	696	421	298	244	210	145	121	64.0
10.2V	2109	1703	1066	679	417	296	243	208	144	121	63.8
10.5V	2019	1645	1040	665	411	294	241	207	143	120	63.4
10.8V	1905	1558	1002	645	400	285	234	201	138	119	63.0

Note: The above characteristics data can be obtained within three charge/discharge cycles.

Page 1 of 2

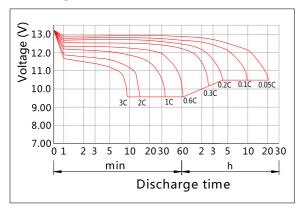




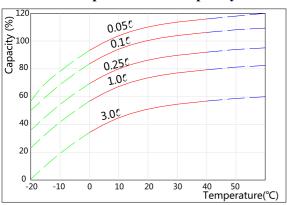




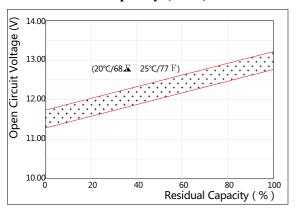
Discharge Characteristics $(25\mathcal{L})$



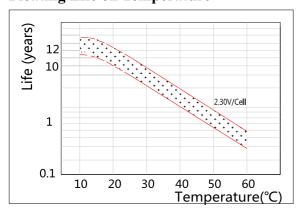
Effect of Temperature on Capacity



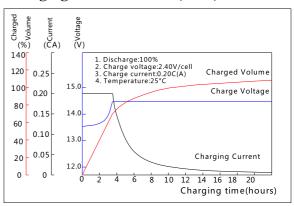
The Relationship for Open Circuit Voltage and Residual Capacity ($25\mathcal{L}$)



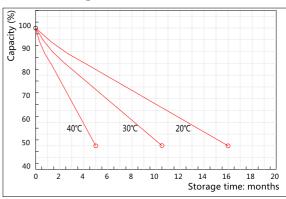
Floating Life on Temperature



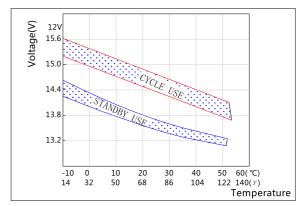
Charging Characteristics $(25\mathcal{L})$



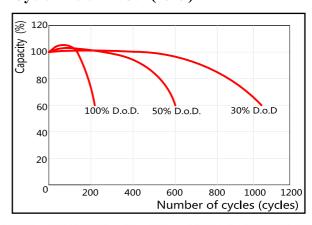
Self-discharge Characteristics



The Relationship for Charging Voltage and **Temperature**



Cycle Life on D.O.D(25 \mathcal{L})



Page 2 of 2







