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BW 1290 (12V9Ah)

SPECIFICATIONS

Nominal Voltage		12 V
Capacity (25℃)	20HR	9 Ah
	10HR	7.9 Ah
	1HR	5.5 Ah
Dimension	Length	151±1.5mm (5.94inch)
	Width	65±1mm (2.56inch)
	Height	94±1mm (3.70inch)
	Total Height	100±1mm (3.94inch)
Approx. Weight		2.45kg (5.39lbs)±5%
Terminal type		F1 or F2
Internal resistance (Fully charged, 25℃)		Approx. 23mΩ
Capacity affected by temperature (20HR)	40℃	102%
	25℃	100%
	0℃	85%
	-15℃	65%
Self-discharge (25℃)	3 month	Remaining Capacity: 91%
	6 month	Remaining Capacity: 82%
	12 month	Remaining Capacity: 65%
Nominal operating temperature		25℃±3℃(77℉ ±5℉)
Operating temperature range	Discharge	-15℃ ~ 50℃(5℉ ~ 122℉)
	Charge	-10℃ ~ 50℃(14℉ ~ 122℉)
	Storage	-20℃ ~ 50℃(-4℉ ~ 122℉)
Float charging voltage(25℃)		13.60 to 13.80V Temperature compensation: -18mV/℃
Cyclic charging voltage(25℃)		14.50 to 15.00V Temperature compensation: -30mV/℃
Maximum charging current		2.55A
Maximum discharge current		127.5A(5 sec.)
Designed floating life(20℃)		5 years

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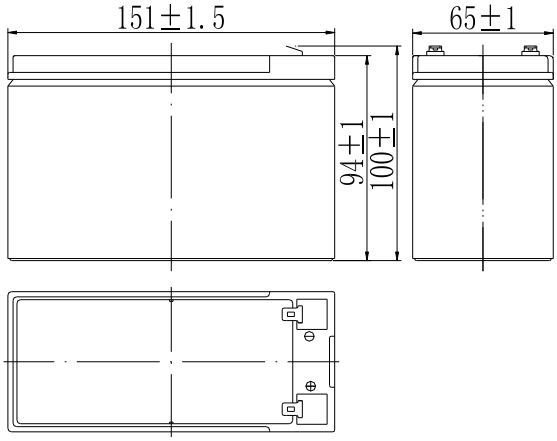
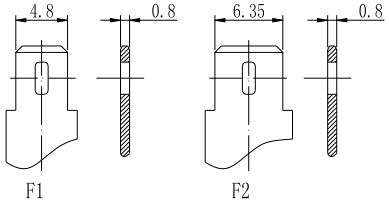
DIMENSIONS



TERMINAL



CONSTRUCTION

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

CONSTANT CURRENT DISCHARGE CHARACTERISTICS (A, 25℃)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	32.5	20.6	16.1	9.05	5.57	3.05	2.11	1.74	1.48	0.80	0.431
9.90V	31.5	20.0	15.7	8.87	5.48	3.03	2.09	1.73	1.47	0.80	0.430
10.2V	30.2	19.1	15.1	8.60	5.34	3.00	2.08	1.72	1.46	0.80	0.428
10.5V	28.9	18.3	14.6	8.39	5.24	2.96	2.07	1.71	1.45	0.79	0.425
10.8V	27.3	17.3	13.8	8.08	5.08	2.88	2.00	1.66	1.41	0.78	0.417

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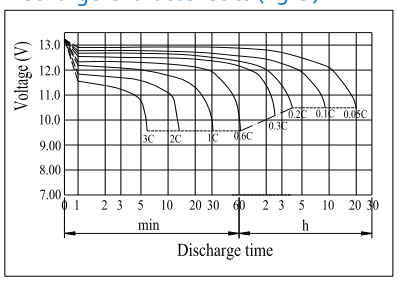
CONSTANT POWER DISCHARGE CHARACTERISTICS (WATT, 25℃)

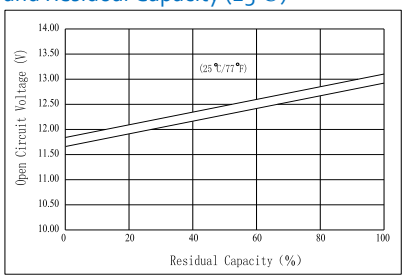
F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	362	232	183	104	64.5	35.6	25.0	20.8	17.7	9.66	5.18
9.90V	351	225	179	102	63.5	35.4	24.9	20.6	17.6	9.62	5.16
10.2V	337	216	172	98.6	61.9	35.1	24.7	20.5	17.5	9.57	5.13
10.5V	323	207	166	96.2	60.7	34.6	24.5	20.3	17.4	9.52	5.10
10.8V	304	195	158	92.6	58.8	33.7	23.8	19.7	16.8	9.33	5.00

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

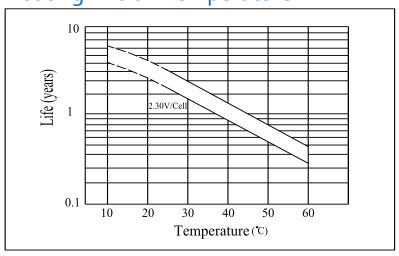
Discharge Characteristics (25℃)



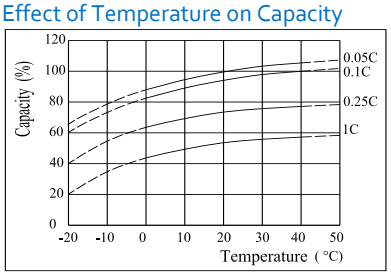
The Relationship for Open Circuit Voltage and Residual Capacity (25℃)



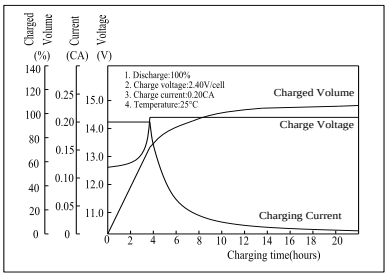
Floating Life on Temperature



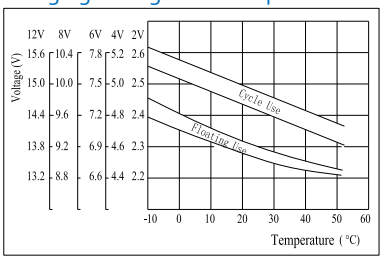
Effect of Temperature on Capacity



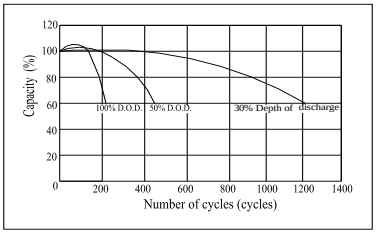
Charging Characteristics (25℃)



The Relationship for Charging Voltage and Temperature



Cycle Life on D.O.D (25℃)



Self-discharge Characteristics