

VMP

ELECTRIC VEHICLE BATTERY

6-DZF-12 12V12Ah

● Specification

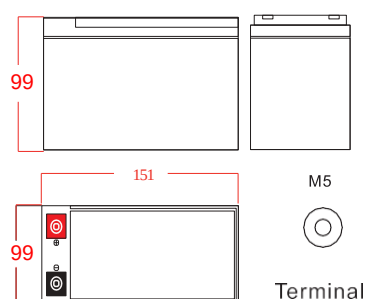
Nominal Voltage		12V
Rated capacity (10 hour rate)		12Ah
Dimensions	Length	151mm
	Width	99mm
	Height	98mm
	Total Height	99mm
Approx. Weight		3.5kg



● Characteristic

Capacity (25℃)	10HR(10.5V)	14Ah
	2HR(10.5V)	12Ah
	1HR(9.60V)	11.5Ah
Terminal type		M5
Internal resistance (Fully charged, 25℃)		Approx. 19mΩ
Capacity affected by temperature (20HR)	40℃	102%
	25℃	100%
	0℃	85%
	-15℃	65%
Self-discharge (25℃)	3month	Remaining Capacity: 91%
	6month	Remaining Capacity: 82%
	12month	Remaining Capacity: 65%
Nominal operating temperature		25℃
Operating temperature range	Discharge	-15℃~50℃
	Charge	-10℃~50℃
	Storage	-20℃~50℃
Float charging voltage (25℃)		13.70 to 13.90V Temperature compensation: -18mV/℃
Cyclic charging voltage (25℃)		14.70 to 14.90V Temperature compensation: -30mV/℃
Maximum charging current		2.4A
Maximum discharge current		180A (5 sec.)
Designed floating life (20℃)		5 years

● Outer dimension (mm)



● 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 Characteristic Unit: A(25℃)

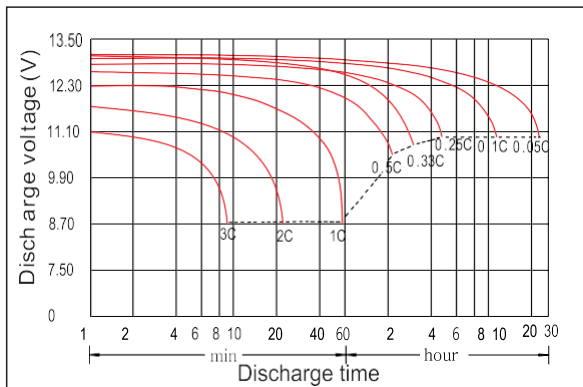
F.V/Time	5min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60V	55.8	30.0	18.0	11.8	6.33	4.35	2.68	1.72	1.45	0.77
9.90V	54.1	29.0	17.7	11.8	6.30	4.31	2.66	1.71	1.43	0.76
10.2V	51.9	28.4	17.4	11.7	6.25	4.25	2.63	1.69	1.42	0.76
10.5V	47.8	27.5	17.2	11.5	6.15	4.20	2.60	1.67	1.40	0.76
10.8V	42.8	25.6	16.5	11.2	6.04	4.17	2.53	1.62	1.39	0.75

● Constant Power Discharge Characteristic Unit: W(25℃)

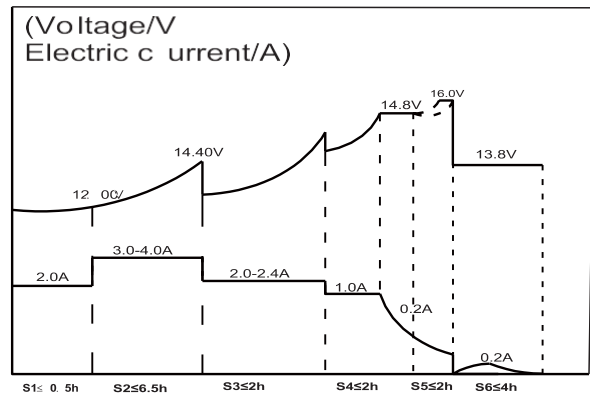
F.V/Time	5min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60V	93.8	52.8	32.6	22.4	11.9	8.29	5.09	3.34	2.78	1.52
9.90V	90.2	51.9	32.3	22.2	11.9	8.18	5.06	3.32	2.75	1.51
10.2V	89.3	51.3	32.3	22.0	11.9	8.13	5.02	3.30	2.73	1.51
10.5V	83.4	50.9	32.1	21.8	11.8	8.09	4.99	3.25	2.69	1.50
10.8V	76.6	48.1	31.3	21.7	11.7	8.06	4.93	3.16	2.67	1.48

6-DZF-12 12V12Ah

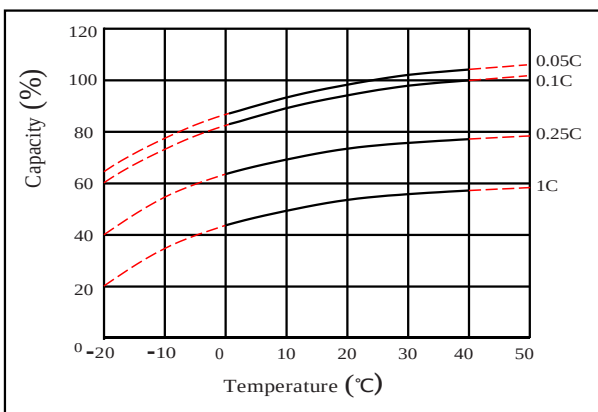
Discharge characteristics(25°C)



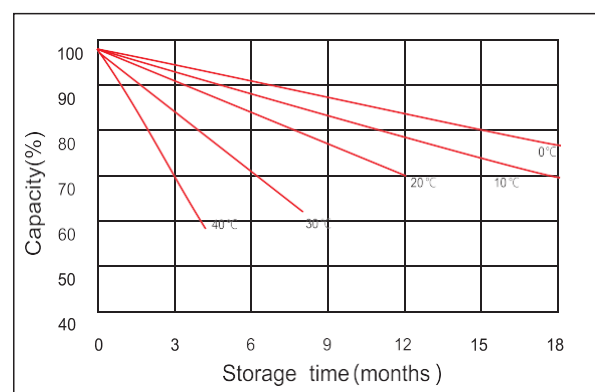
Charging characteristics (25°C)



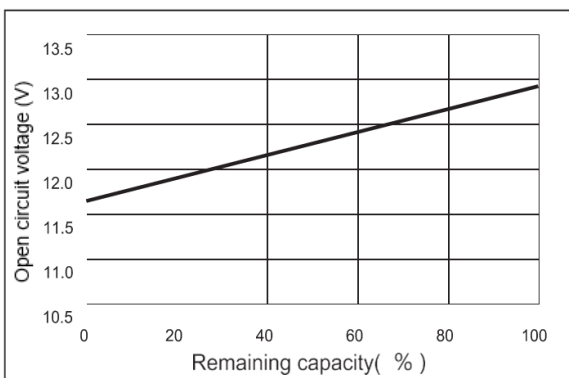
Effect of temperature on capacity



Self-discharge characteristics



Effect of open circuit voltage on capacity



Cycle life on D.O.D(25°C)

