

# GP Batteries

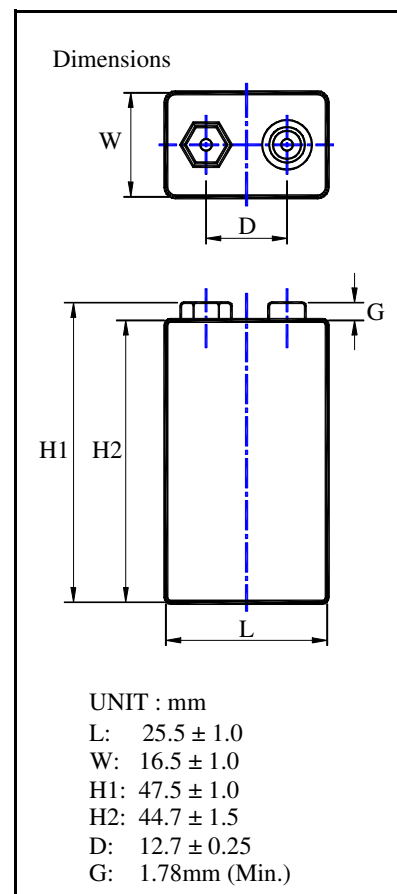
Data Sheet

Model No. :

GPPVA9VAS/GPVA9VAS/GP1604A

MERCURY FREE

- Description** : Alkaline Manganese 9V Battery  
**Chemical System** : Alkaline Manganese Dioxide  
**Nominal Voltage** : 9.0 Volts  
**Operating Temp.** : -20 °C ~ 60 °C , 75 % RH Max.  
**Storage Temp.** : Batteries shall be stored in well-ventilated, dry and cool conditions. High temperature or high humidity may cause deterioration of the battery performance or surface corrosion.
- Nominal Dimensions** : 25.5 (L) x 16.5 (W) x 47.5 (H) mm  
**Terminal** : Nickel plated miniature snap fasteners  
**Jacket** : Printed metal jacket  
**Internal Connection** : Welding  
**Application** : All electronics devices  
**Nominal Weight** : 47 g  
**Date Code** : Unless otherwise specified, every battery will carry a 6-digits month-year (MM-YYYY) expiry code.
- Special Feature** : **World class explosion proof**  
**Shelf Life** : 5 Years as below conditions,



**Electrical Characteristics**

Test Items	Test Conditions * 20 ± 2 °C 55 ± 20 % RH	Specification (Volt), min			
		3 Months	1 year	3 years	5 years
OCV		9.48 V	9.20 V	9.00 V	8.80 V
CCV	47 Ω, 0.3 s	8.00V	7.80 V	7.50 V	7.20 V

**Discharge Capacity**

Test Items	Test Conditions * 20 ± 2 °C 55 ± 20 % RH (EV = End Voltage)	Specification (Hours), MAD			
		3 Months	1 year	3 years	5 years
Duration	270 Ω Intermittent 1 h/d EV = 5.40 V	20.0	18.0	16.0	14.0
	620 Ω Intermittent 2 h/d EV = 5.40 V	48.2	43.4	38.6	33.7
	10 kΩ background 24 h/d, 620 Ω 1 s/h pulse EV = 7.50 V	Specification (Days), MAD			
		19.0	17.1	15.2	13.3

\* During short periods only, the storage temperature may deviate from these limits without exceeding 20 +/- 5 °C.

**Cross References :**

GP	JIS	IEC	EVEREADY	DURACELL
1604A	6LF22	6LF22/ 6LP3146	522	MN1604



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