# VHL525-12FR (Flame Retardant) 12 Volt, 525Watt/Cell High Rate Industrial Battery



## **Features**

- High Rate Industrial Battery 30% better high power discharge performance compared to conventional batteries
- Pure Lead Battery Technology improves battery theoritical lifetime
- UL 94-V0 Grade Flame Retardant Material

# **Specifications**

Rated Voltage		12V
9		525 watt/cell
Nominal Capacity		525 watt/cen
Dimension	Length Width Container Height Total Height	341mm (13.4 inches) 173mm (6.81 inches) 279mm (11.1 inches) 283mm (11.3 inches)
Approx Weight		41.0 Kg (90.4 lbs)
Terminal		M6
Container Material Max. Discharge Current		VL 94-V0 950A (5s)
Internal Resistance (25°C)		Approx 5.0mΩ
Operating Temp.Range	Discharge Charge Storage	-20~60°C -10~60°C -20~60°C
Nominal Operating Temp. Range		25±3°C (77±5°F)
Cycle Use	14.4V-14.7V. Maximum Ch Temperature Compensatio	0 0
Standby Use	13.4V-13.8V. Temperature Compensatio	on -20mV/°C
Effect of temp. to Capacity	40°C (104°F) 25°C (77°F) 0°C (32°F)	103% 100% 86%
Self Discharge	VHLseries batteries may be s at 25°C(77°F) and then a frest For higher temperatures the ti	hening charge is required.



Constant Power Discharge (Watts/cell) at 25 °C (77°F)										
End Voltage Volts/Cell	5min	10min	15min	20min	25min	30min	45min	60min		
1.60	860	688	600	474	417	352	254	200		
1.67	818	669	560	453	398	342	243	192		
1.70	760	639	550	441	388	330	238	190		
1.75	709	619	527	429	378	317	230	184		
1.80	606	602	502	/111	362	305	223	191		

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# **Applications**

- · UPS
- · For standard power cabinet
- Network connection equipment of communication system
- Power system of special network of local area network
- · Power station systems

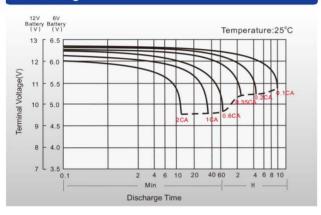
#### **General Features**

- 12 years design life(20°C)
- Unique vent valve design: reduce water losing and prevent air/spark going inside

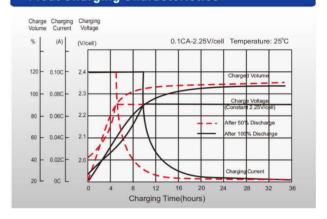
#### **Standards**

- Compliance with IEC 60896 standards, EU Battery Directive
- · UL, CE Certified
- Manufactured in IATF16949, ISO 45001,ISO 9001 and ISO 14001 certified production facilities

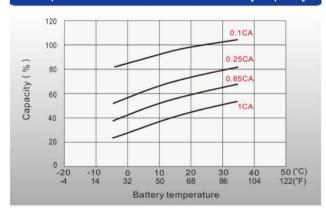
## **Discharge Characteristics**



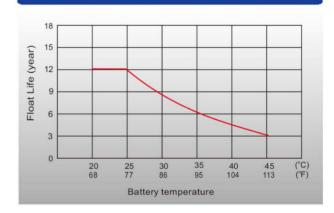
## Float Charging Characteristics

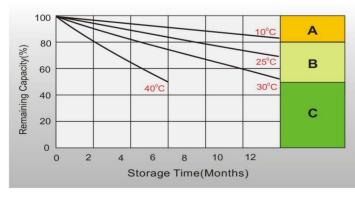


# Temperature Effects in Relation to Battery Capacity



# Effect of Temperature on Long Term Float Life





### Self Discharge Characteristics

No supplementary charge required

(Carry out supplementary charge before use if 100% capacity is required.)

Supplementary charge required before use. Optional charging way as below:

B 1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.

2. Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.

3.Charged for 8~10hours at limted current 0.05CA .

Supplementary charge may often fail to recover the capacity
The battery should never be left standing till this is reached.

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