C&D TECHNOLOGIES, INC.
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C&D Battery Model

122 AH, 8 hr rate to 1.75 vpc

Model:	**4JC-05HP**
Product Line:	**JC-HP**
Type:	VLA (Flooded) 20 year
Grid Type:	Lead Calcium
Specific Gravity:	1.215
No. Cells / Jar:	4
Part Number:	CW18527-S
No. Plates:	5
***Float vpc:**	2.21 volts per cell
***Equalize vpc:**	2.33 volts per cell

* Nominal values only, see Installation and Operations Manual for details

Key Calculations

Based on the Following Parameters:

Model:	**4JC-05HP**
Number of Cells:	**1**
Cell Voltage:	**2.21 volts per cell**
Temperature:	**77 °F**

Battery String Information:

***Float:**	2.21 vDC	Nominal Float
***Equalize:**	2.33 vDC	Nominal Equalize
vDC as Entered:	2.21 vDC	Based on User Provided Cell Voltage
Number of Cells:	1	
Number of Jars:	1	
Battery Weight:	104.00 lbs	

Hydrogen Evolution:

at Volts per Cell:	2.21	
Per Cell:	**Warning**: number_format() expects parameter 1 to be double, string given in **/home/cdtechno/framework/application/product/views/battery_html.php** on line **176** cu. ft. H_2 / Hour	
Per String:	**Warning**: number_format() expects parameter 1 to be double, string given in	(1 cells in the string)

/home/cdtechno/framework/application/product/views/battery_html.php
on line **181**
cu. ft. H_2 / Hour

at Temperature: 77 °F

Electrolyte & Composition Calculations:

	Per Cell	Per String
Electrolyte Volume:	0.70 gal	1 gal
Electrolyte Weight:	7.08 lbs	7 lbs
Lead Weight:	14.38 lbs	14 lbs
H_2SO_4 Weight (%):	1.81 lbs	2 lbs

Electrolyte quantities given are approximate values designed to meet or exceed known reporting requirements of applicable health and saf

Cell Resistance & Short Circuit:

Short Circuit Current:	1906 max. amps.	Calculated Short Circuit Current in Amperes
Cell Resistance:	0.001100 ohms.	Resistance expressed in ohms, for Cell + 1 Connector
Cell Resistance:	0.001100 ohms.	Re

Jar Information

Width:	10 in.
Length:	10.28 in.
Height:	14.3 in.
Cover:	High-impact, flame-retardant thermoplastic with tongue-and-groove seal
Standard Jar:	Thermoplastic, transparent, SAN
Optional Jar:	
Safety Vent:	Flame arrestor/low evaporation type with flip-top dust cover
Terminals:	Rectangular lead post

Weight Information **

Jar:	104.00 lbs
Dom. Pack:	110.00 lbs

** - Does not include module or rack weight

Features

Reliable tongue and groove jar-to-cover seal design provides increased adhesive coverage area • offering unprecedented seal integrity d
Top suspended positive plate design allows free downward growth without pressure on jar, cover, or post seal • extending reliability and p
Wrapped separator design extends cycle life • improving product reliability
Enhanced post seal design allows growth without transmitting forces to cover
C&D capacity tests every JC-HP battery to 100% of 1 hr published rating which ensures 100% capacity out-of-the-box at this rate (no need the batteries to reach rated capacity) saving time and money for users
Individual posts allow monitoring of individual cell performance in a multi-cell container

Applications

This model is suitable for numerous applications and deployments. Listed below are standard applications, however, applications engineering should alwa specific requirements prior to deployment.

UPS - Short Duration: An application in which, discharge currents are very high and the battery reserve time is one hour or less(typically 15
Telecommunication - Long Duration: An application in which, discharge currents are relatively low and the battery reserve time is from thr several days.
Switchgear & Control - General Purpose: An application in which, characteristically, both high and low currents are required for various du cycles (sequence and duration of current loads over support time) are typically 1 minute to 8 hours in duration.

Product Line

PRODUCT LINE: Vented (flooded) lead-acid battery line designed for general purpose (switchgear & control) and long duration (telecommunications) floa applications. Nominal capacities (8 hours to 1.75 Vpc) from 122 to 183 Ampere-hours

Other Battery Models For This Product Line

4JC-05HP
4JC-07HP
4JC-09HP

Friday, July 17, 2020

All critical calculations must be verified with C&D Applications
Specifications are subject to change without notice