

KB100PzV200 -12V 200Ah



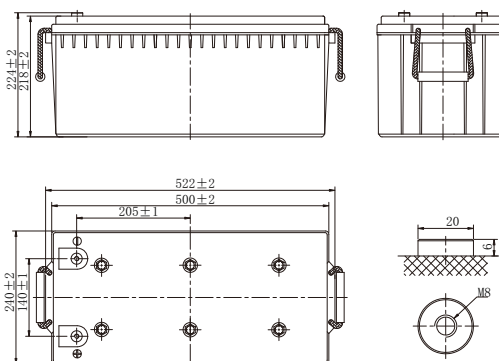
Performance Characteristics

Nominal Voltage	12V		
Dimensions	Length (mm / inch)	522 / 20.55	
	Width (mm / inch)	268 / 14.49	
	Height (mm / inch)	220 / 8.66	
	Total Height (mm / inch)	226 / 8.90	
Approx. Weight	(Kg / lbs)	75.9 / 167.33	
Design Life	10 - 12 years		
Terminal	M8		
Container Material	ABS		
Rated Capacity	200.0 Ah / 20.0A	(10hr, 1.80V/cell, 25°C / 77°F)	
	175.5 Ah / 35.1 A	(5hr, 1.75V/cell, 25°C / 77°F)	
	155.7 Ah /51.9 A	(3hr, 1.75V/cell, 25°C / 77°F)	
	112.0 Ah / 112.0 A	(1hr, 1.67V/cell, 25°C / 77°F)	
Max. Discharge Current	1600A (5s)		
Internal Resistance	Approx 0.48mΩ		
Operating Temp. Range	Discharge : -20 ~ 55°C (-4 ~ 131°F)		
	Charge : 0 ~ 40°C (32 ~ 104°F)		
	Storage : -20 ~ 50°C (-4 ~ 122°F)		
Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)		
Cycle Use	Initial Charging Current less than 120A		
	Voltage: 2.4VPC ~ 2.5VPC at 25°C (77°F)		
	Temp. Coefficient: -5mV/°C		
Standby Use	Initial Charging Current less than 120A		
	Voltage: 2.25VPC ~ 2.3VPC at 25°C (77°F)		
	Temp. Coefficient: -3mV/°C		
Capacity affected by Temperature	40°C (104°F)	103%	
	25°C (77°F)	100%	
	0°C (32°F)	86%	
Self Discharge	≤3% per month at 25oC		

Constant Current Discharge (Amperes) at 77°F (25°C)

Volts/cell	10min	15min	30min	1h	5h	8h	10h
1.80V	210.0	188.0	142.0	101.0	34.4	23.8	20.0
1.75V	248.0	210.0	152.0	105.0	35.1	24.2	20.3
1.70V	279.0	230.0	161.0	109.0	35.6	24.5	20.5
1.67V	299.0	242.0	167.0	112.0	36.2	24.8	20.8
1.60V	313.0	251.0	171.0	114.0	36.5	25.0	20.9

Dimensions and Terminal (Unit: mm (inches))



Applications

Telecommunications
 Radio and cellular telephone relay stations
 Emergency lighting systems
 Power stations, Conventional power stations,
 alternative power (solar, wind)
 Large UPS and computer back-up
 Railway signaling
 Maritime standby power on ships and ashore
 Process and control engineering
 Standby power
 Buoy lighting

Certifications

ISO 9001:2008 ISO 14001:2008



Discharge Current vs. Discharge Voltage

Final discharge voltage V/CELL	1.8	1.75	1.7	1.6
Discharge current (A)	I ≤ 0.1CA	0.25CA ≥ I > 0.1CA	0.55CA ≥ I > 0.25CA	I > 0.55CA

Constant Power Discharge (Watts per cell) at 77°F (25°C)

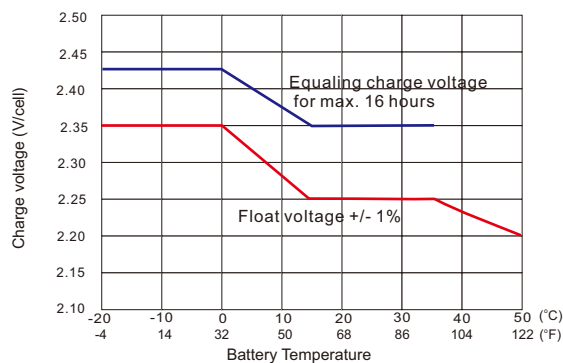
Volts/cell	10min	15min	30min	1h	5h	8h	10h
1.80V	384.0	269.0	658.7	194.0	67.4	47.1	39.7
1.75V	446.0	384.0	658.7	201.0	68.5	47.8	40.3
1.70V	492.0	413.0	298.0	207.0	69.3	48.3	40.7
1.67V	519.0	433.0	307.0	212.0	70.1	48.7	41.0
1.60V	532.0	439.0	311.0	214.0	70.6	49.0	41.3

(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

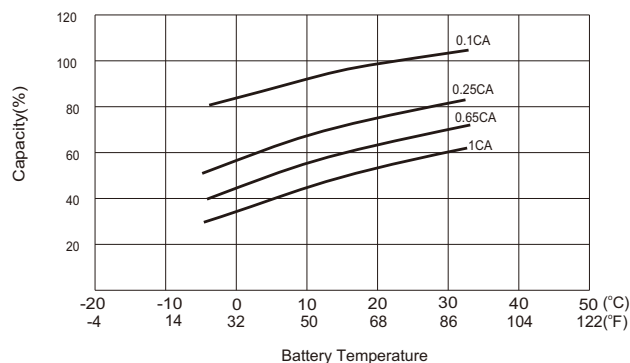
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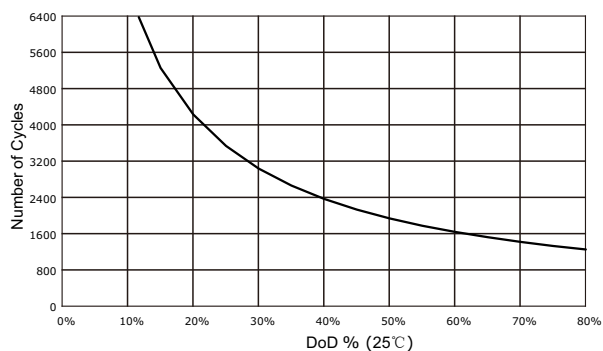
Charge voltage vs ambient temperature curve



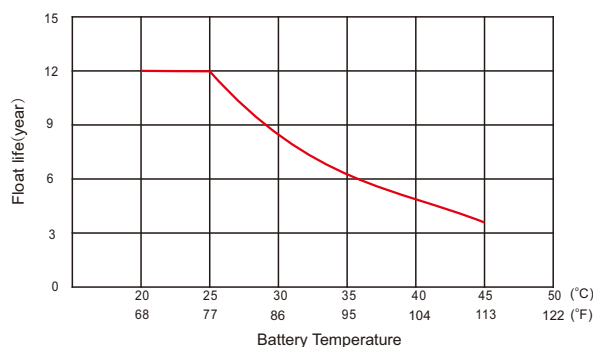
Temperature effects in relation to battery capacity



Cycle Life in Relation to DOD



Temperature Effects on Float Life



IMPORTANT NOTE: The specifications presented herein are subject to revision without notice.

