



ROBUSTE VRLA DEEP CYCLE BATTERY

KD 12-200 | 12V200AH @ C10

FEATURES

- Special grid alloy: less self-discharging
- Non-spillable construction
- Excellent recharging acceptance
- For longer cycle life: special paste formula, additives for deep discharge
- High quality AGM separator: extend cycle life and prevent micro short circuit

APPLICATION

- Solar/Wind System
- Vehicle in place of walking
- Lawn mowers
- Electric toys
- Electric tools
- Wheelchairs



MAIN SPECIFICATIONS

Nominal Voltage	12 V
Nominal Capacity	200 Ah @ 10-hour rate F.V. (1.80V/cell)
Approx. Weight	56 Kg (123.45 lbs.)
Terminals	B9 (Fitting M8 bolt & nut), I3 are optional
Internal Resistance	≤ 3.1 mΩ (Fully charged)
Max. Discharge Current	1600 A (5 sec)
Max. Charge Current	50.0 A
Operating Temperature Range	Charge: -10°C ~ 40°C (14°F ~ 104°F) Discharge: -20°C ~ 50°C (-4°F ~ 122°F) Storage: -20°C ~ 50°C (-4°F ~ 122°F)
Self-Discharge	3% of capacity declined per month (at 25°C)

DIMENSIONS

Length:

522 ± 1.5mm (20.55 ± 0.06 in)

Width:

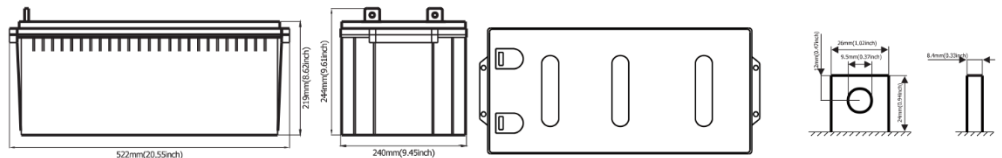
240 ± 1.5mm (9.45 ± 0.06 in)

Container Height:

219 ± 1.5mm (8.62 ± 0.06 in)

Total Height:

225 ± 2.00mm (9.61 ± 0.08 in)



Terminal Dimensions

CAPACITY FACTORS WITH DIFFERENT TEMPERATURES

Battery	-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
VRLA 12V 200AH @ C10	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%

CONSTANT POWER DISCHARGE CHARACTERISTICS AT 25°C / 77°F Unit: W

F.V./Time	10 MIN	15 MIN	30 MIN	1 HR	3 HR	5 HR	10 HR	20 HR
1.60 V	796	620	396	260	107	73.2	42.4	21.1
1.65 V	788	614	390	251	106	73.0	41.8	21.0
1.70 V	763	604	378	245	105	72.7	41.5	20.8
1.75 V	716	568	367	243	103	72.2	40.7	20.5
1.80 V	672	534	355	238	101	71.0	40.0	20.2

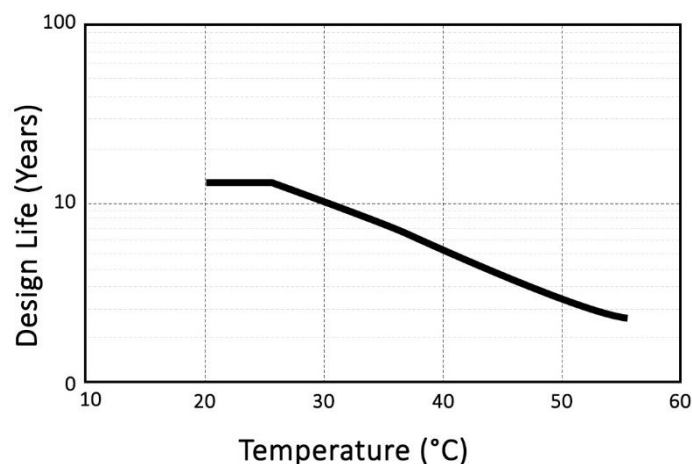
Charge Voltage	
Cycle Use	14.4 – 14.7 V (± 4 mV)
Max. Current	50.0 A

CONSTANT CURRENT DISCHARGE CHARACTERISTICS AT 25°C / 77°F Unit: A

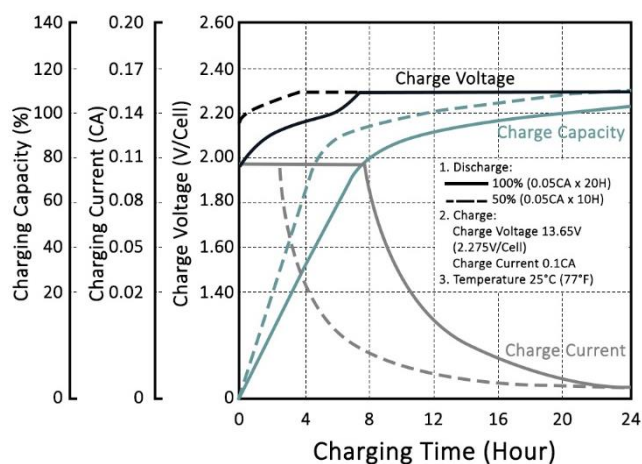
F.V./Time	10 MIN	15 MIN	30 MIN	1 HR	3 HR	5 HR	10 HR	20 HR
1.60 V	480	350	210	126	54.6	38.0	20.8	11.0
1.65 V	438	340	204	124	54.4	37.8	20.7	10.8
1.70 V	422	328	200	122	54.2	37.6	20.6	10.6
1.75 V	390	310	196	120	54.0	37.5	20.4	10.5
1.80 V	362	296	190	116	53.8	37.2	20.0	10.2

Float Use
13.5 – 13.8 V (± 3 mV)

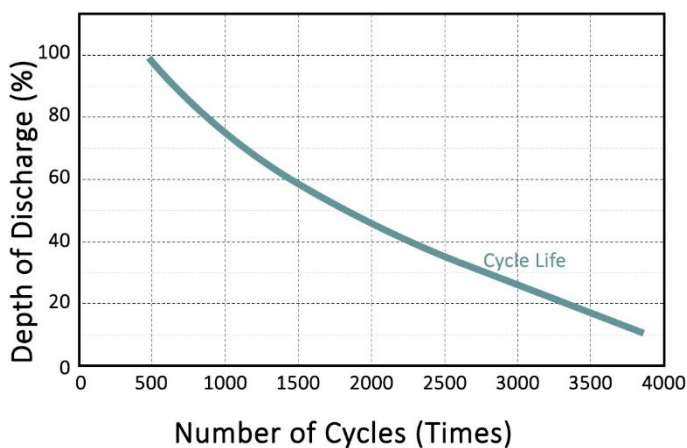
TRICKLE (OR FLOAT) SERVICE LIFE



CHARGE CHARACTERISTIC



DEPTH OF DISCHARGE VS. CHARGES



DISCHARGE CHARACTERISTIC

