

# 12AL200N 12ALZ200N

## AMARON QUANTA™

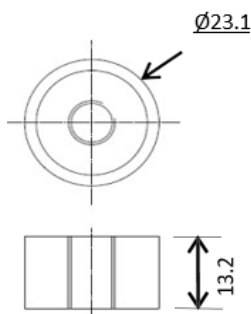
The industrial segment SMF-VRLA (Valve Regulated Lead Acid) battery for UPS applications is built to perform.

In short, the lifeline to your UPS applications

AMARON QUANTA™ is a product of fail- safe, fool-proof battery technology, produced and tested in our premier manufacturing facility. Built to the highest technical competence in its class, the QUANTA is an example of Amara Raja's commitment to bringing the best of technology to your table

It features several firsts for the battery industry like the unique Radgrid™

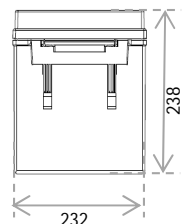
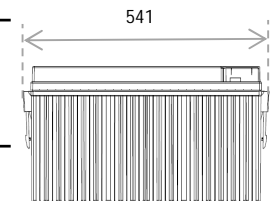
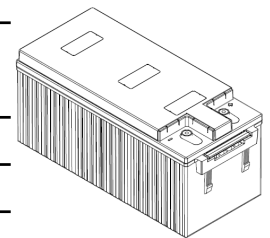
### TERMINAL LAYOUT



All dimensions are in mm

## Specification

Nominal Voltage	12V
Rated Capacity	200Ah / C <sub>20</sub> Hr / 1.75VPC / 27°C
Dimensions (±2mm)	Length 541 mm (21.30 in.)
	Width 232 mm (9.31 in.)
	Total Height 238 mm (9.37 in.)
Weight (±5%)	61.0 Kg (134.48 lbs)
Terminal Type	M8 x 25mm Copper terminal
Capacity @ 27°C	186.00 Ah (10hr, 18.60 A, 10.5 V/battery)
	171.50 Ah (5hr, 34.30 A, 10.2 V/battery)
	126.60 Ah (1hr, 126.6 A, 9.6V /battery)
	40°C (104°F) 110%
Capacity affected (Temperature at C20 hr rate)	27°C (80.6°F) 100%
	0°C (32°F) 80%
	-15°C (5°F) 60%
Case Material	Standard PPCP (12AL200N)
	FR Version UL 94-V0 (12ALZ200N)
Internal Resistance (IR)	Approx. 3.49 mΩ for a fully charged battery (27°C)
Short Circuit Current (As per IEC)	3655 A
Operating Temp. range	-20°C to +60°C (50 to 60°C for shorter duration)
Nominal Operating Temp. range	27°C ± 3°C
Standby use (27°C)	Charging Voltage 13.5 V/battery
	Charging Current Max. 25% of rated capacity
	Temp. Compensation ± 18mV/battery/°C
Cyclic use (27°C)	Charging Voltage 13.8 V/battery
	Charging Current Max. 25% of rated capacity
	Temp. Compensation ± 30mV/battery/°C
Self-Discharge	< 4% per month at 27°C



### Constant Power Discharge Rating (Watts Per Battery) @ 27°C \*

ECV/ Time	10min	15min	20min	30min	60min	2hrs	3hrs	5hrs	8hrs	10hrs	20hrs
1.60	4851	4183	3144	2675	1473	892	652	437	297	240	122
1.65	4766	4088	3112	2592	1448	881	634	427	292	238	121
1.70	4679	3992	3079	2508	1424	867	617	418	286	236	120
1.75	4476	3803	3021	2466	1381	853	599	408	280	234	119
1.80	4273	3614	2962	2422	1336	839	581	398	274	232	118

### Constant Current Discharge Rating (Amperes) @ 27°C \*

ECV/ Time	10min	15min	20 min	30min	60 min	2 hrs	3 hrs	5 hrs	8hrs	10 hrs	20 hrs
1.60	425.50	327.90	266.70	200.00	126.60	78.80	53.80	37.00	23.00	19.50	10.70
1.65	416.90	325.30	265.00	199.00	125.80	75.60	52.20	35.70	22.50	19.20	10.50
1.70	408.20	322.60	263.20	198.00	125.00	72.40	50.60	34.30	22.00	18.90	10.20
1.75	400.00	317.50	256.40	196.10	122.00	71.40	50.50	34.20	21.90	18.60	10.00
1.80	392.20	307.70	250.00	192.30	119.00	70.90	50.20	33.90	21.70	18.50	9.90

Note:

- The above data are average values per battery and can be obtained within five charge/discharge cycle
- A tolerance of ±5% is applicable for the above constant power discharge and constant current discharge values.
- Recommended to follow IEEE -485 Standard for Battery sizing (In terms of Aging Margin, Design Margin) for Optimal Performance & Life.
- Considerable Voltage drop across cables, if any shall be considering during battery sizing.



**AMARA RAJA**  
Gotta be a better way



### CAUTION

- ⚠ Avoid short circuit
- ⚠ Don't charge in a sealed container



## THE LONG LIFE UPS BATTERY



## Performance

A clutch of design features ensures that AMARON QUANTA™ batteries perform predictably and reliably every time

- ✓ Proven AGM technology that ensures maintenance free characteristics
- ✓ A unique heavy duty corrosion-resistant alloy for positive grids to increase cyclic life in tropical
- ✓ Radgrid™ profile provides lower internal resistance and superior high-discharge performance
- ✓ Instacharge™ a patented paste recipe for excellent charge acceptance
- ✓ Low self-discharge rates for extended storage periods
- ✓ Design Float life of upto 10 years
- ✓ Clean and Sleek looks

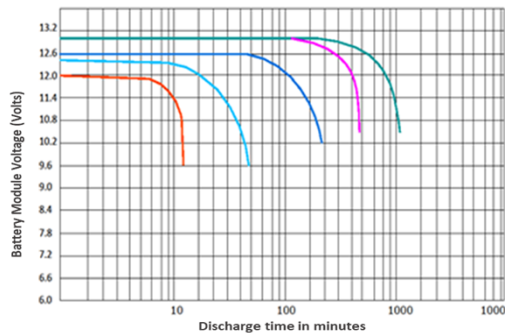
## Compliance

- ✓ JIS C 8702 Certified
- ✓ UL (UL-1989) & CE Certified
- ✓ Complies to IEC61056 & EUROBAT
- ✓ Complies to IS 16220
- ✓ Manufactured in ISO 9001, ISO 14001, ISO45001:2018 certified facilities

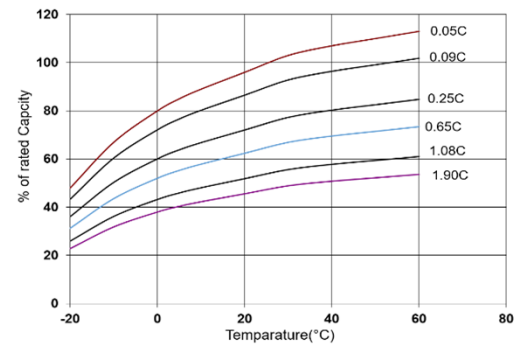
## Applications

- ✓ Data Centers
- ✓ Banks & Financial Markets
- ✓ Network Operations Centers
- ✓ Industrial Process Control Facilities
- ✓ Safety, Surveillance & Security Systems
- ✓ Semiconductor Manufacturing
- ✓ Power Generation Plants
- ✓ Hospital & Testing laboratories

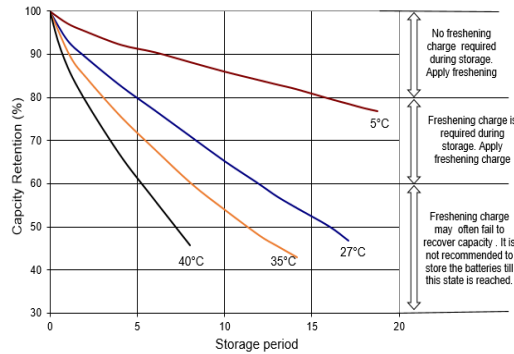
### Discharge Characteristics



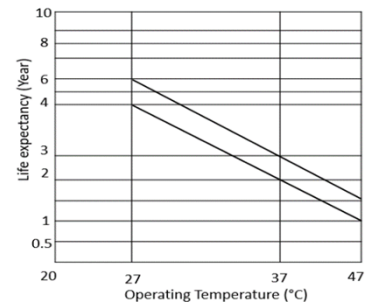
### Temperature Effect on Capacity



### Shelf Life Characteristics



### Float Service Life vs. Temperature



## AMARA RAJA ENERGY & MOBILITY LIMITED

(Formerly Known as Amara Raja Batteries Limited)

### CORPORATE OPERATIONS OFFICE:

Terminal A, 1-18/1/AMR/NR, Nanakramguda, Gachibowli, Hyderabad-500032, India, [E-Mail: mktg@amararaja.com](mailto:mktg@amararaja.com)  
[www.amararajaeandm.com](http://www.amararajaeandm.com)

### REGISTERED OFFICE & Manufacturing Facility-1:

UNIT-I, Karakambadi - 517520, Tirupati, Andhra Pradesh, India, TEL: +91-877-2265000, FAX: +91-877-2285600

### Manufacturing Facility-2

UNIT-II, Nunegundlapalle, Bangarupalyam, Chittoor - 517416, Andhra Pradesh, India



ARE&M/IAE/AQ/200Ah; Oct'2023; Rev-01