

12AL200N 12ALZ200N



AMARON QUANTA™

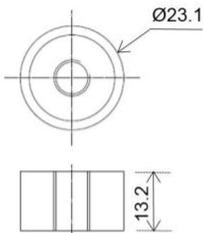
The industrial segment SMF-VRLA (Valve Regulated Lead Acid) Battery for UPS applications is built to perform

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™

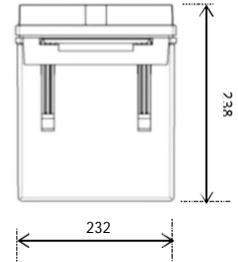
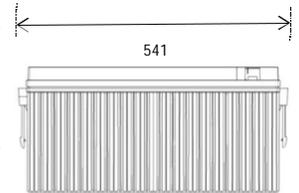
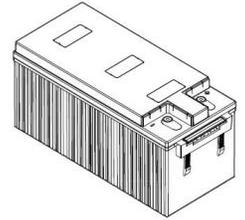
TERMINAL LAYOUT



All dimensions are in mm

Specification

Nominal Voltage	12V
Rated Capacity	200 Ah / C ₂₀ / 1.75VPC / 27°C
Dimensions (±2mm)	Length 541mm (21.30 in.) Width 232mm (9.13 in.) Total Height 238mm (9.37 in.)
Approx. Weight	61.0 Kg (134.48 lbs)
Terminal	M8 x 25mm Copper terminal
Capacity @ 27°C	186.0 Ah (10hr, 18.60 A, 10.5 V/module) 171.5 Ah (5hr, 34.30 A, 10.2 V/module) 126.6 Ah (1hr, 126.6 A, 9.6 V/module)
Capacity affected (Temperature at C ₂₀ hr rate)	40°C (104°F) 110% 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 (As per IEC)	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 +50°C
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 ± 18mV/battery/°C
Self-Discharge	< 4% per month at 27°C



Constant power discharge rating (watts per battery) @ 27°C *

ECV/ Time	10 min	15 min	20 min	30 min	60 min	2 hrs	3 hrs	5 hrs	8 hrs	10 hrs	20 hrs
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	10 min	15 min	20 min	30 min	60 min	2 hr	3 hr	5 hr	8 hr	10 hr	20 hr
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.



CAUTION

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



THE LONG LIFE UPS BATTERY



Performance

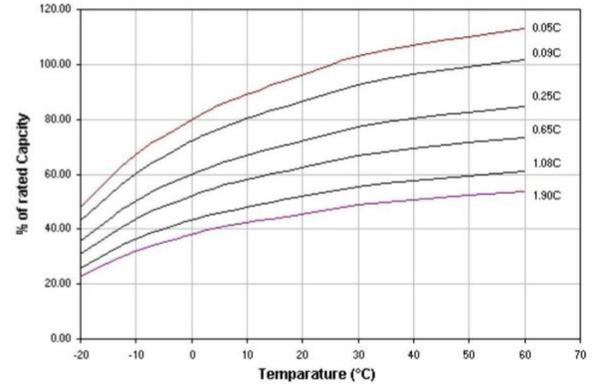
A clutch of design features ensures that AMARON QUANTA™ batteries perform predictably and reliably everytime

- ✓ Proven AGM technology that ensures maintenance free characteristics
- ✓ A unique heavy duty corrosion-resistant alloy for positive grids to increase cyclic life in tropical environments
- ✓ 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

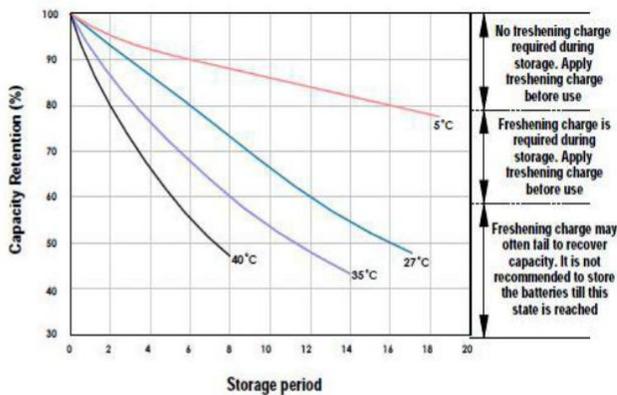
Discharge Characteristics



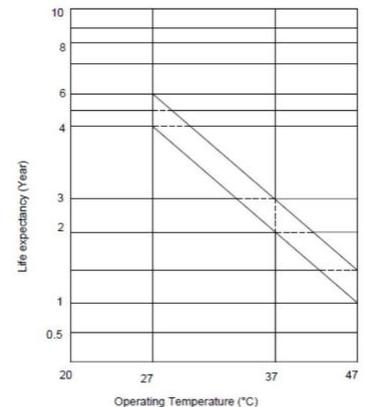
Temperature Effect on Capacity



Shelf Life Characteristics



Float Service Life vs. Temperature



AMARA RAJA BATTERIES LIMITED

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