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AMARON® QUANTA
LIFE UNINTERRUPTED

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™

Specification

Nominal Voltage		12V
Rated Capacity		18Ah / C_{20}Hr / 1.75VPC / 27°C
Dimensions (±2mm)	Length	181mm (7.13 in.)
	Width	77mm (3.03 in.)
	Total Height	167mm (6.57 in.)
Weight (±5%)		5.52 Kg (12.17 lbs.)
Terminal Type		M5 Bolted
Capacity @ 27°C	16.80 Ah	(10hr, 1.68 A, 10.5 V/battery)
	15.40 Ah	(5hr, 3.08A , 10.2 V/battery)
	11.25 Ah	(1hr,11.25A,9.6V/battery)
Case Material		Acrylonitrile Butadiene Styrene (ABS)
Internal Resistance (IR)		Approx. 14 mΩ for a fully charged battery (27°C)
Max. discharge current (5 sec)		270 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 to 13.8V/battery
	Charging Current	Max. 25% of rated capacity
	Temp. Compensation	± 18mV/battery/°C
Cyclic use (27°C)	Charging Voltage	14.4 to 14.7V/battery
	Charging Current	Max. 25% of rated capacity
	Temp. Compensation	± 30mV/battery/°C
Self-Discharge		< 4% per month at 27°C

Constant Current discharge rating (amperes) @ 27°C *

ECV/ Time	10 min	15 min	30 min	60 min	2 hrs	3 hrs	5 hrs	10 hrs	20hrs
1.60	41.87	33.46	20.16	12.04	7.30	5.00	3.44	1.75	0.96
1.70	39.33	30.59	18.54	11.73	6.71	4.69	3.18	1.71	0.92
1.75	37.83	29.90	18.35	11.59	6.62	4.68	3.17	1.68	0.90

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

ECV/ Time	10 min	15 min	30 min	60 min	2 hrs	3 hrs	5 hrs	10 hrs	20 hrs
1.60	498.80	386.33	213.31	141.20	85.14	56.92	38.18	21.78	11.68
1.70	484.80	365.60	209.27	138.17	81.70	55.40	37.60	21.29	11.28
1.75	462.50	352.30	205.03	136.25	78.20	54.20	36.70	21.14	11.09

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

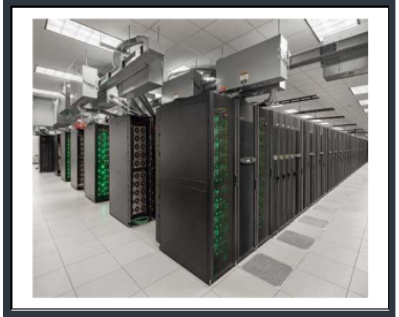
AMARA RAJA
Gotta be a better way

**Design improvement is a continuous process of Amara Raja. As a result, specifications are subject to change without prior notice

QUANTA™
– WHEN ALL ELSE FAILS

CAUTION

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



THE LONG LIFE UPS BATTERY

Features

- ✓ Proven AGM technology that ensures maintenance free characteristics
- ✓ Low self-discharge rates for extended storage periods
- ✓ Design float life of up to 6 years
- ✓ Clean and Sleek looks

Compliance

- ✓ Complies to JIS C 8702
- ✓ UL (UL-1989) & CE Certified
- ✓ Complies to IEC 61056
- ✓ Complies to IEC 60896

Applications

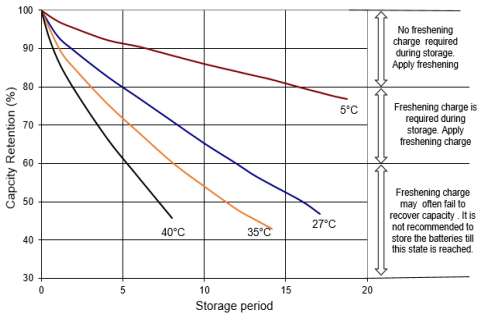
- ✓ Small UPS System
- ✓ Emergency Lighting
- ✓ Fire Alarm System
- ✓ Safety, Surveillance & Security Systems
- ✓ Medical Equipment

Quality Standards

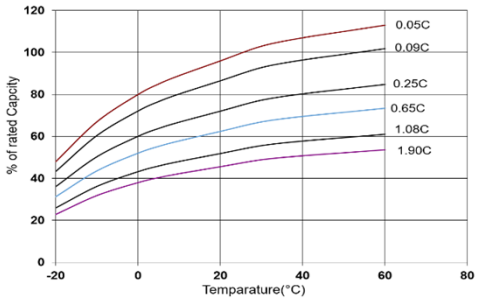
Manufactured in best-in-class facility certified to

- ✓ ISO 9001: 2015
- ✓ ISO 14001: 2015
- ✓ ISO 45001:2018

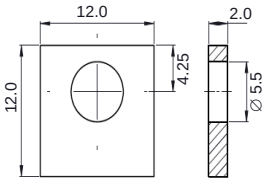
Shelf Life Characteristics

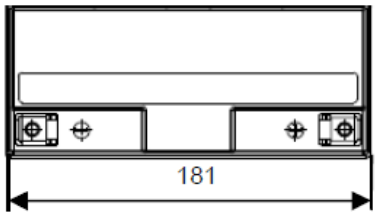


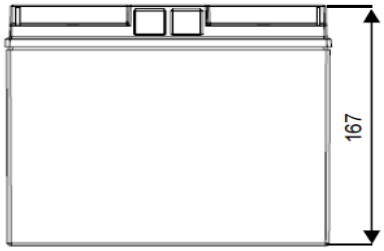
Temperature Effect on Capacity



Battery Layout







AMARA RAJA ENERGY & MOBILITY LIMITED
(Formerly Known as Amara Raja Batteries Limited)

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