# 12AL012



## **Specification**

Nominal Voltage		12V		
Rated Capacity		12 Ah / C <sub>20</sub> / 1.75VPC / 27°C		
Dimensions (±2mm)	Length Width Total Height	151mm (5.94 in.) 98mm (3.85 in.) 99mm (3.89 in.)		
Weight (±5%)		3.75 Kg (8.26 lbs.)		
Terminal Type	<u> </u>	F2 (Faston tab)		
Capacity @ 27°C	12.0 Ah 10.7 Ah 8.82 Ah	(10hr, 1.20 A, 10.5 V/battery) (5hr, 2.14 A, 10.2 V/battery) (1hr, 8.82 A, 9.6 V/battery)		
Case Material		Acrylonitrile Butadiene Styrene (ABS)		
Internal Resistance (IR)	Approx. 13.0 mΩ for a fully charged battery (27°C)			
Max. discharge current (5 sec)		180 A		
Operating Temp. range		-20°C to +50°C		
Nominal Operating Temp. range		27°C ± 3°C		
Standby use (27°C)	Charging Voltage Charging Current Temp. Compensation	13.5 to 13.8V/battery Max. 25% of rated capacity ± 18mV/battery/°C		
Cyclic use (27°C)	Charging Voltage Charging Current Temp. Compensation	14.4 to 15.0V/battery Max. 25% of rated capacity ± 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	20 hrs
1.60	32.70	24.20	13.50	8.82	4.68	3.29	2.23	1.25	0.64
1.70	30.70	22.90	13.00	8.63	4.56	3.19	2.14	1.22	0.62
1.75	29.40	22.10	12.60	8.52	4.47	3.13	2.08	1.20	0.60
1.80	28.10	21.30	12.10	8.40	4.36	3.06	2.03	1.18	0.58

	Constant Power discharge rating ( watts) @ 27°C *								
ECV/ Time	10 min	15 min	30 min	60 min	2 hrs	3 hrs	5 hrs	10 hrs	20 hrs
1.60	348.6	266.3	150.3	100.0	53.3	36.7	25.6	14.4	7.5
1.70	327.4	252.0	145.1	97.1	52.2	35.4	24.6	14.1	7.2
1.75	313.7	243.4	140.6	95.4	51.7	34.6	23.9	13.9	7.1
1.80	300.0	234.3	134.9	93.1	51.0	33.5	23.3	13.7	6.9

- \* Note: 1. The above data are average values per battery and can be obtained within five charge/discharge cycle
  - 2. A tolerance of  $\pm 5\%$  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.
  - ${\it 4. Considerable \ Voltage \ drop \ across \ cables, if \ any \ shall \ be \ considering \ during \ battery \ sizing.}$

### 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 failsafe, 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



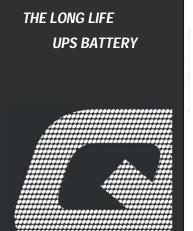


#### CAUTION

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







### **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
- ✓ Complies to IEC 61056
- ✓ Complies to IEC 60896

## **Applications**

- ✓ Data Centers
- ✓ Banks & Financial Markets
- ✓ Network Operations Centers
- ✓ Internet Housing Sites
- ✓ Semiconductor Manufacturing
- ✓ Hospital & Testing laboratories

## **Quality Standards**

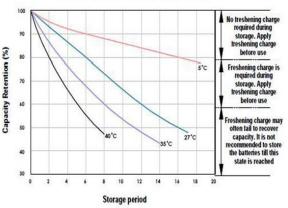
Manufactured in best-in-class facility certified to

✓ ISO 9001: 2015

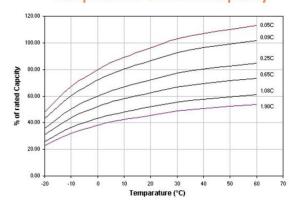
✓ ISO 14001: 2015

✓ OHSAS 18001: 2007

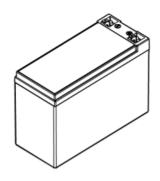
### **Shelf Life Characteristics**

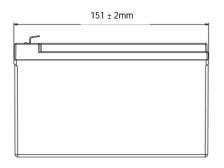


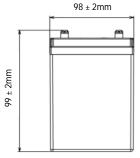
### **Temperature Effect on Capacity**



## **Battery Layout**







#### **AMARA RAJA BATTERIES LIMITED**

• CORPORATE OPERATIONS OFFICE:

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