

12AL075 12ALZ075



AMARON QUANTA™

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

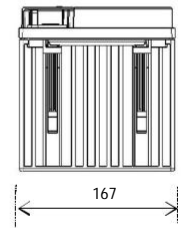
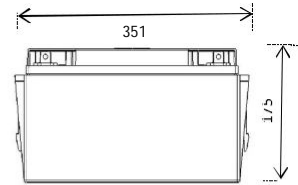
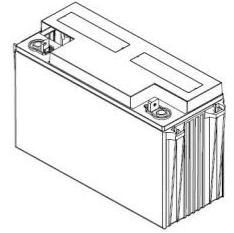
In short, the lifeline to your UPS applications

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

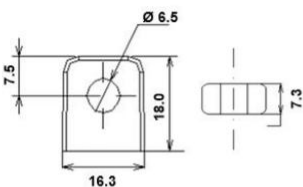
It features several firsts for the battery industry like the unique Radgrid™

Specification

Nominal Voltage	12V	
Rated Capacity	75 Ah / C ₂₀ / 1.75VPC / 27°C	
Dimensions (±2mm)	Length	351mm (13.82 in.)
	Width	167mm (6.57 in.)
	Total Height	175mm (6.89 in.)
Approx. Weight	23.0 Kg (50.71 lbs)	
Terminal	B6 Bolted	
Capacity @ 27°C	67.5 Ah	(10hr, 6.75 A, 10.5 V/battery)
	55.7 Ah	(5hr, 11.15 A, 10.2 V/battery)
	42.2 Ah	(1hr, 42.21 A, 9.6 V/battery)
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 (12AL075)
	FR Version	UL 94-V0 (12ALZ075)
Internal Resistance (As per IEC)	Approx. 5.0 mΩ for a fully charged battery (27°C)	
Short Circuit Current (As per IEC)	2367 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	



TERMINAL LAYOUT



All dimensions are in mm

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
1.60	1710	1400	1122	852	515	310	215	147	96.0
1.70	1763	1351	1095	825	504	302	213	145	94.5
1.75	1679	1300	1060	800	489	298	211	143	93.7
1.80	1595	1250	1025	775	475	295	210	142	93.0

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

ECV/ Time	10 min	15 min	20 min	30 min	60 min	2 hrs	3 hrs	5 hrs	8 hrs
1.60	146.79	117.33	93.12	70.65	42.21	25.60	17.50	12.04	7.47
1.70	137.86	107.26	86.32	65.00	41.14	23.53	16.44	11.15	7.15
1.75	132.65	104.84	85.53	64.36	40.63	23.21	16.41	11.11	7.10
1.80	130.00	103.17	83.33	63.73	38.88	23.05	16.33	11.02	7.07

* 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.



CAUTION

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



THE LONG LIFE UPS BATTERY



Performance

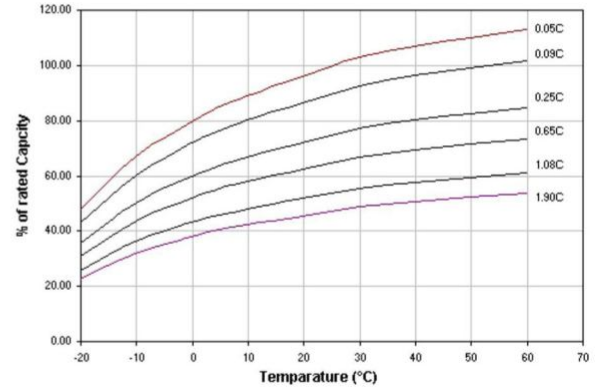
A clutch of design features ensures that AMARON QUANTA™ batteries perform predictably and reliably everytime

- ✓ 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

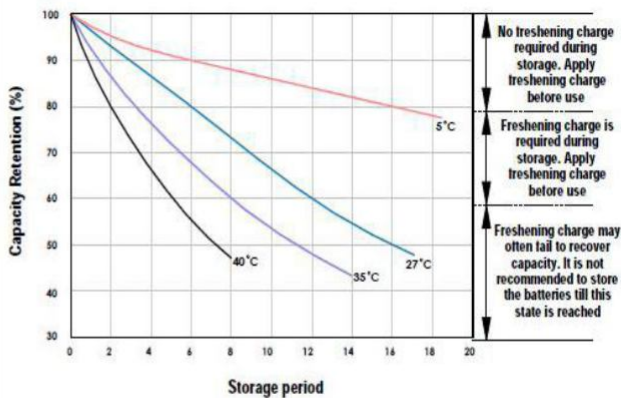
Discharge Characteristics



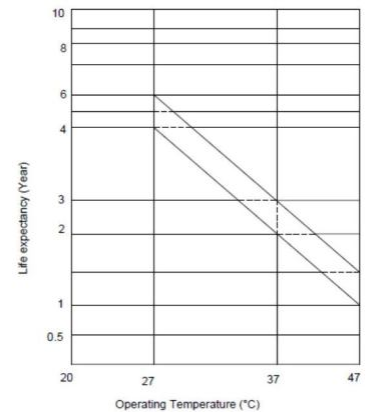
Temperature Effect on Capacity



Shelf Life Characteristics



Float Service Life vs. Temperature



AMARA RAJA BATTERIES LIMITED

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