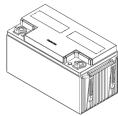
12AL075 12ALZ075



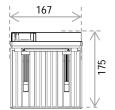
Specification

Nominal Voltage		12V			
Rated Capacity		75Ah / C ₂₀ Hr / 1.75VPC / 27°C			
Dimensions (±2mm)	Length Width Total Height	351 mm (13.82 in.) 167 mm (6.57 in.) 175 mm (6.89 in.)			
Weight (±5%)		23.0 Kg (50.71lbs)			
Terminal Type		M6 x 20 mm Bolted			
Capacity @ 27°C	55.70 Ah 42.21 Ah 29.33Ah	(5hr, 11.15 A, 10.2 V/battery) (1hr, 42.21 A, 9.6V /battery) (15min,117.33A, 9.6V /battery)			
Capacity affected (Temperature at C20 hr rate)	40°C (104°F) 27°C (80.6°F) 0°C (32°F) -15°C (5°F)	110% 100% 80% 60%			
Case Material	Standard FR Version	PPCP (12AL075) UL 94-V0 (12ALZ075)			
Internal Resistance (IR)	Approx. 5.0 mΩ fe	or a fully charged battery (27°C)			
Short Circuit Current (As per IEC)		2367 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 Charging Current Temp. Compensation	13.5 V/battery Max. 25% of rated capacity ± 18mV/battery/°C			
Cyclic use (27°C)	Charging Voltage Charging Current	13.8 V/battery Max. 25% of rated capacity			

Temp. Compensation







 $\pm 30 mV/battery/^{\circ}C$

< 4% per month at 27°C

AMARON QUANTATM

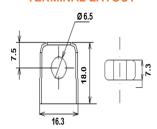
The industrial segment SMF-VRLA (Valve Regulated Lead Acid) battery for UPS applications is built to perform.

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 RadgridTM

TERMINAL LAYOUT



All dimensions are in mm

Constant Power Discharge Rating (Watts Per Battery) @ 27°C *									
ECV/ Time	10min	15min	20min	30min	60min	2hrs	3hrs	5hrs	8hrs
1.60	1810	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	10min	15min	20 min	30min	60 min	2 hrs	3 hrs	5 hrs	8hrs
1.60	146.8	117.33	93.12	70.65	42.21	25.60	17.50	12.04	7.47
1.70	137.9	107.26	86.32	65.00	41.14	23.53	16.44	11.15	7.15
1.75	132.7	104.84	85.53	64.36	40.63	23.21	16.41	11.11	7.10
1.80	130.0	103.17	83.33	63.73	38.88	23.05	16.33	11.02	7.07

Self-Discharge

- 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.

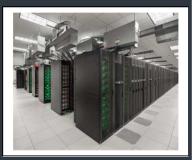
 4. Considerable Voltage drop across cables, if any shall be considering during battery sizing.





CAUTION

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





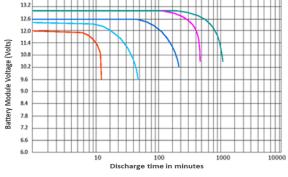


Performance

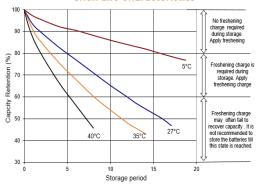
A clutch of design features ensures that AMARON QUANTA $^{\rm TM}$ batteries perform predictably and reliably every time

- ✓ Proven AGM technology that ensures maintenance free characteristics
- ✓ A unique heavy duty corrosion-resistant alloy for positive grids to increase cyclic life in tropical
- ✓ RadgridTM profile provides lower internal resistance and superior high-discharge performance
- ✓ Instacharge TM 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



Shelf Life Characteristics



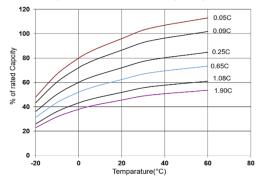
Compliance

- ✓ 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

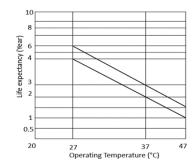
Applications

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

Temperature Effect on Capacity



Float Service Life vs. Temperature



AMARA RAJA ENERGY & MOBILITY LIMITED

(Formerly Known as Amara Raja Batteries Limited)

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- Manufacturing Facility-2
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