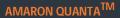
12AL150 12ALZ150



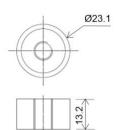
The industrial segment SMF-VRLA (Valve Regulated Lead UPS Acid) Battery applications is built to perform

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



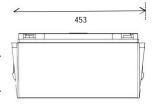
All dimensions are in mm

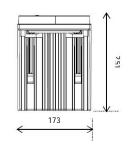


Specification

Nominal Voltage		12V				
Rated Capacity		150 Ah / C ₂₀ / 1.75VPC / 27°C				
Dimensions (±2mm)	Length Width Total Height	453mm (17.83 in.) 173mm (6.81 in.) 251mm (9.88 in.)				
Approx. Weight		45.0 Kg (99.21 lbs)				
Terminal		M8 x 25mm Copper terminal				
Capacity @ 27°C	139.7 Ah 128.6 Ah 95.5 Ah	(10hr, 13.97 A, 10.5 V/module) (5hr, 25.73 A, 10.2 V/module) (1hr, 95.54 A, 9.6 V/module)				
Capacity affected (Temperature at C ₂₀ 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 (12AL150) UL 94-V0 (12ALZ150)				
Internal Resistance (As per IEC)	Approx. 4.86 mg for a fully charged battery (27°C)					
Short Circuit Current (As per IEC)		2633 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 V/battery Max. 25% of rated capacity ± 18mV/battery/°C				
Cyclic use (27°C)	Charging Voltage Charging Current Temp. Compensation	13.8 V/battery Max. 25% of rated capacity ± 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	3594	2801	2269	1817	1125	680	495.0	340.0	225.0	183.0	93.0
1.65	3441	2764	2223	1786	1100	670	483.5	325.5	219.0	181.5	92.5
1.70	3288	2727	2177	1755	1075	659	470.0	318.0	213.0	180.0	92.0
1.75	3135	2690	2127	1724	1050	649	456.0	310.0	210.0	178.5	91.0
1.80	2982	2570	2078	1693	1024	638	442.0	302.0	207.0	177.0	90.0

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	326.09	258.62	211.26	153.06	95.54	59.08	40.38	27.79	17.24	14.59	8.03
1.65	316.11	250.28	204.31	150.79	94.65	56.69	39.16	26.76	16.87	14.41	7.83
1.70	306.12	241.94	197.36	148.51	93.75	54.29	37.94	25.73	16.49	14.23	7.63
1.75	300.00	238.10	194.80	147.06	91.46	53.57	37.88	25.64	16.39	13.97	7.50
1.80	294.12	230.77	189.80	144.23	89.29	53.19	37.69	25.42	16.30	13.89	7.46

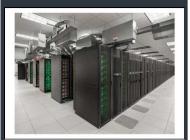
- 1. The above data are average values per battery and can be obtained within five charge/discharge cycle
 2. A tolerance of ±5% is applicable for the above constant power discharge and constant current discharge values.
- 3. Recommended to follow IEEE -485 Standard for Battery sizing (In terms of Aging 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





UPS BATTERY

THE LONG LIFE

Performance

A clutch of design features ensures that AMARON QUANTATM 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
- RadgridTM profile provides lower internal resistance and superior high-discharge performance
- ✓ InstachargeTM 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

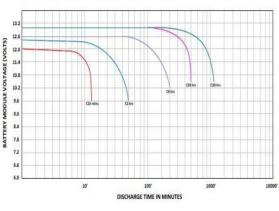
Standards

- ✓ JIS C 8702 Certified
- ✓ UL (UL-1989) & CE Certified
- ✓ Complies to IEC 61056 & 60896 and EUROBAT
- ✓ Complies to IS 16220, IS 15549
- ✓ Manufactured in ISO 9001, ISO 14001, OHSAS 18001 certified facilities

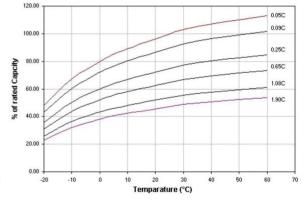
Applications

- ✓ Data Centers
- ✓ Banks & Financial Markets
- Network Operations Centers
- ✓ Industrial Process Control Facilities
- Internet Housing Sites
- ✓ Semiconductor Manufacturing
- ✓ Power Generation Plants
- ✓ Hospital & Testing laboratories

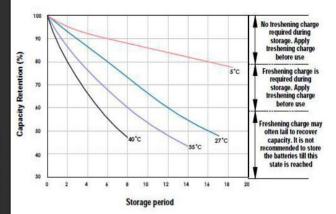
Discharge Characteristics



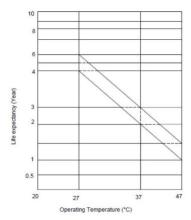
Temperature Effect on Capacity



Shelf Life Characteristics



Float Service Life vs. Temperature



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