12ATL150 (12V – 150Ah) Tubular Series

Introduction:

After pioneering in VRLA technology, Amara Raja, now brought to you ultra low maintenance free tubular batteries with best in class design with advance manufacturing technology. With decades of experience we gain in battery technology, coupled with continuous research has helped us to bring this highest quality product.

Uniquely built Amaron Quanta Tubular batteries has covered all aspects in design, required to give high life beside it ensure fast charge with high efficiency & best in class vent design makes Amaron Quanta Tubular, a perfect choice for high cyclic back up requirements.

Design Features & Benefits:

- Hi-coerce™ spine cast – High pressure spine casting (> 100 bar) provides uni-directional grains orientation with micro hardness extradite superior life.
- Bountiful Boss™ – Allows rapid charge & delivers high power. Optimized current dense & higher conductivity leading to last long.
- Panoptic Spine™ – Mitigates corrosion prone zone, provides high life – Really long.
- Satiated wet paste™ – Higher active material integrity, lowers resistance to delivers consistent power & life.
- Endura cast™ – Automated cast-on-strap delivers durability & performance.
- Unified Termi Seal™ – Rigid & Integrated terminal connectivity provides sustainable strength.
- BIC™ – Best in class vent design reduces acid spewing, built-in flame arrestor avoids acid mist exit.

Specifications:

Nominal Voltage	12V	
Rated capacity @C10 at 27°C at 1.75ECV	150Ah	
Dimensions (±3 mm)	Length	500mm
	Width	190mm
	Total Height	397mm
Weight with acid in Kg (±5%)	58.5	

Major Applications :

- Banks
- IT Parks
- Corporate Establishments
- Telecommunications
- Railways
- Power Plants & Substation
- Process Instrumentation & Control
- Solar Hybrid systems
- Other Cyclic Applications

Product Details:

Type of +ve plate	Tubular
Type of -ve plate	Flat Pasted
AH efficiency	> 90%
WH efficiency	>80%
Terminal Type	L-Terminal with Antimony Lead Alloy
Type of separator	PE
Type of container	PPCP
Operating temp. range of battery	-20°C to +60°C
Self-discharge for 28days	≤5% (As per IS13369 ≤10%)
Recommended Max period of storage	Max. 60days at 27°C
Electrolyte specific gravity of the end charge at 27°C	1.24
Electrolyte specific gravity of the end discharge	1.13

Constant current discharge in Amps at 27°C:

Discharge rate	Current in amps(A)
C10hr at 1.75ECV	15.0
C5hr at 1.80ECV	25.0
C3hr at 1.80ECV	35.9
C1hr at 1.75ECV	75.0

Applicable Standards

- Batteries Generally conforms to - IS 13369 spec.

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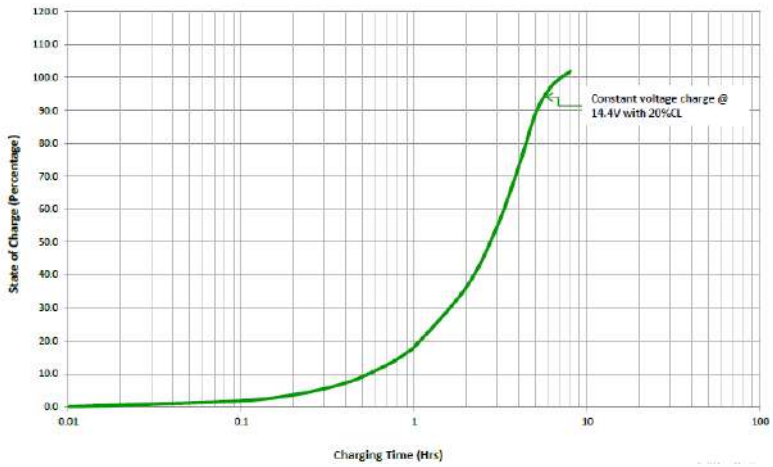
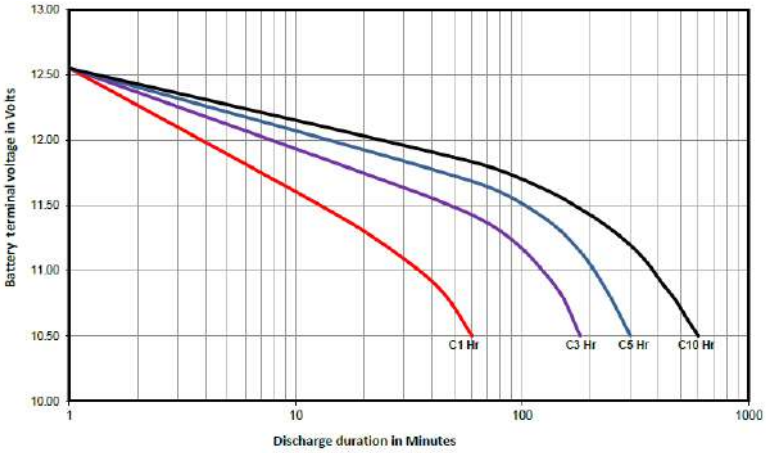
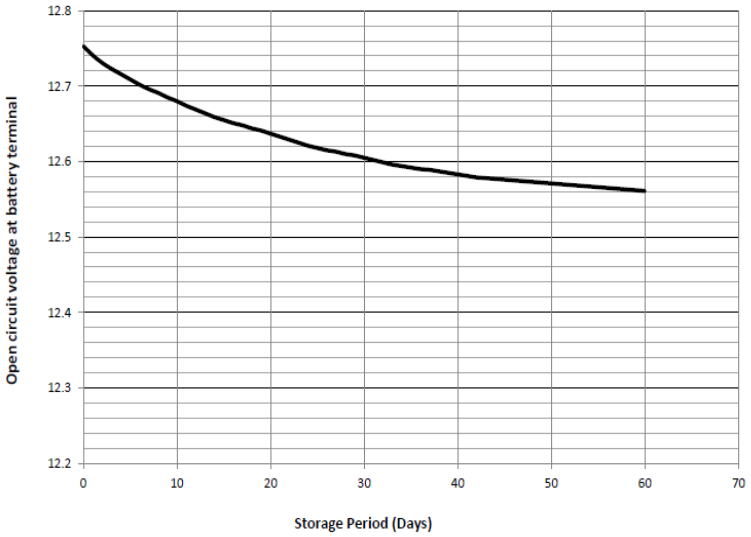
Constant voltage charging characteristics at 27°C



Discharge Characteristics



Shelf Life Characteristics at 27°C



Charging Parameters :

Constant Voltage charging at 27°C:

- Dual Mode Charge & the charging facility should have auto float change over and charge mode facilities with the recommended voltage settings
- Charging current - Min.10% of rated Ah capacity
- Float Voltage - 14.4 ± 0.1V /battery
- Boost Voltage - 15.0 ± 0.1V /battery
- Over cutoff voltage - 15.2V
- Under cutoff voltage - 10.8V

Test for Capacity:

On the first discharge the cell shall give not less than 85 percent of the rated capacity and the rated capacity shall be reached within 10 discharges subsequent to the initial charge.(Ref: IS13369 Clause No. : 11.5.4)

Glimpse of Advanced Manufacturing Technology :

Red Lead Mfg.

Pressure Die Casting

Acid Circulated formation

Reach us :

Amara Raja Batteries Limited

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Andhra Pradesh – 517 416, India

Corporate Office
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Hyderabad
Telangana – 500032, India

*Design Improvements are continuous process at Amara Raja, as result the contents may change without prior notice

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Amaron Quanta S-Xel Tubular

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Major Applications

- UPS
- Telecommunication
- S & T in Railways
- Process Instrumentation & Control
- Internet Housing Sites
- Office Automation Equipment's
- Power Plants & Substations
- Cable Television Equipment
- Fire alarm & security systems

Amaron Quanta S-Xel Tubular batteries Range: C10hrs Range as per IS 13369

SPECIFICATION TABLE

Model	Nominal Voltage (V)	Capacity in Ah at C10hr at 27°C at 1.80ECV (conforms to IS 13369)	Approx. Battery Weight ±5% in kgs with Acid	Overall Dimensions ±3 (in mm)			Poly Material	Charging current in (A)	
				Length	Width	Height*		Minimum	Maximum
12ATL66	12	66	29.9	410	176	281	PPCP	6.6	13.2
12ATL75	12	75	30.7	410	176	281	PPCP	7.5	15.0
12ATL100	12	100	47.5	521	230	281	PPCP	10.0	20.0
12ATL120	12	120	49.0	500	189	343	PPCP	12.0	24.0
12ATL130	12	130	50.0	500	189	343	PPCP	13.0	26.0
12ATL150	12	150	58.0	500	189	397	PPCP	15.0	30.0
12ATL180	12	180	63.0	500	189	397	PPCP	18.0	36.0
12ATL200	12	200	68.5	500	189	397	PPCP	20.0	40.0

*H : Height up to terminal top for all ratings

Product Details

Type of +ve plate	Tubular
Type of -ve plate	Flat Pasted
AH efficiency	> 90%
WH efficiency	>80%
Terminal Type	L-Terminal with Antimony Lead Alloy
Self-discharge for 28days	≤5% (As per IS13369 ≤10%)
Recommended Max period of storage	Max. 60days at 27°C
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Charging Parameters

Constant Voltage charging at 27°

- Dual Mode Charge

The charging facility should have auto float change over and charge mode facilities with the recommended voltage settings

- Float Voltage - 14.4 ± 0.1V /battery
- Boost Voltage - 15.0 ± 0.1V /battery
- Over cutoff voltage - 15.2V
- Under cutoff voltage - 10.5V

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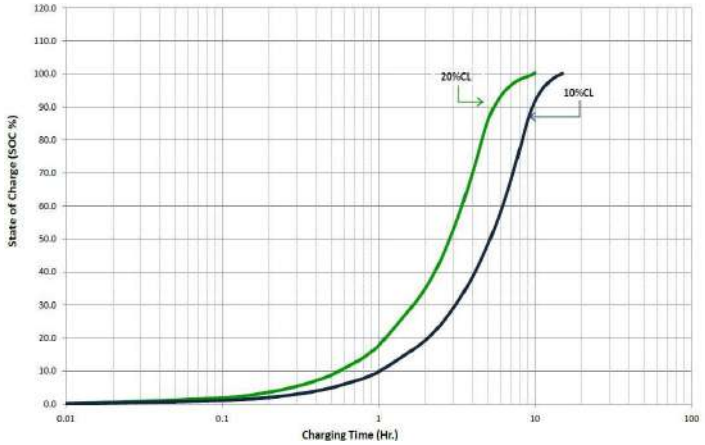
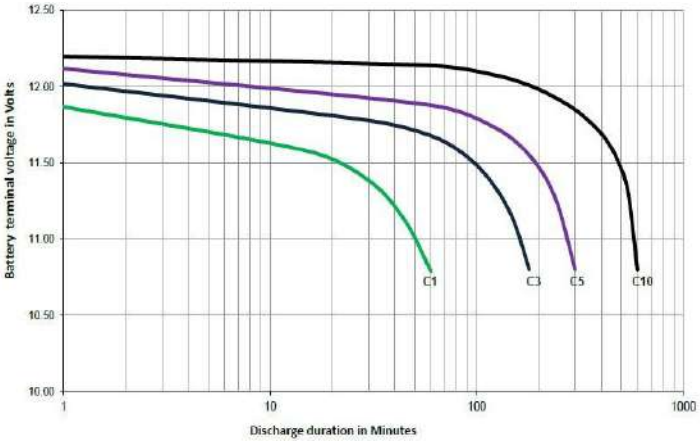
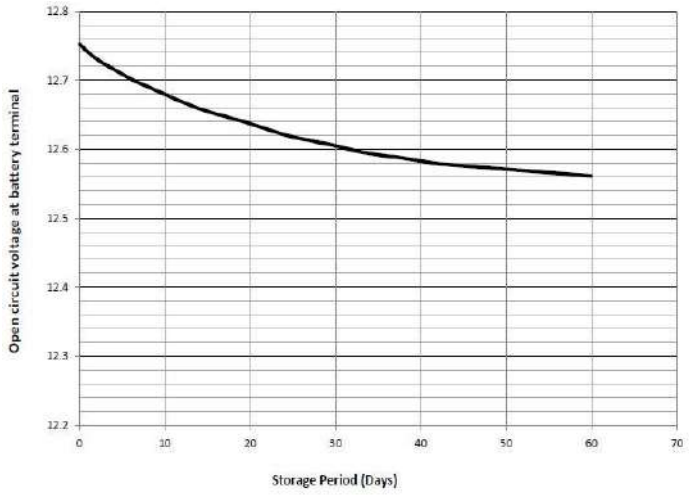
Constant voltage charging characteristics with 14.4V at 27°C



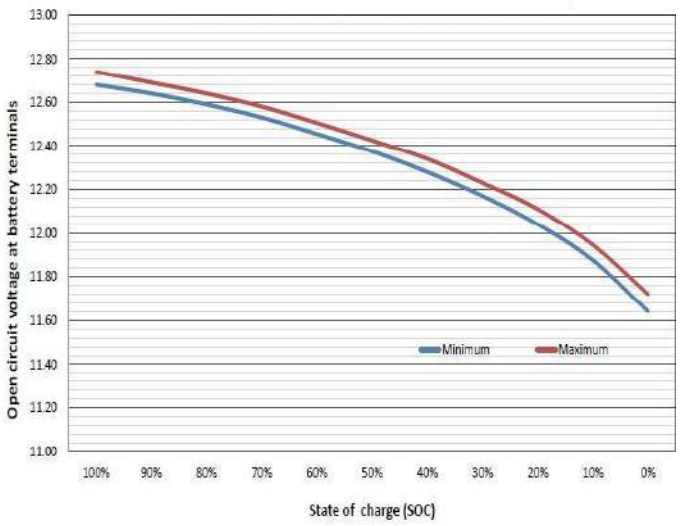
Discharge Characteristics



Shelf Life Characteristics at 27°C



State of charge (SOC) Vs Open Circuit Voltage (V)



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The given battery pictures is for indicative reference only, the actual may varies.

Ref: IAE/TDS/C10hr/21-22 Rev:0