

AMARON®

LIFE UNINTERRUPTED



Power packed Tubular Battery for every UPS needs









Engineering Excellence. Enduring Power Back Up.

Amara Raja yet again proves its passion for cutting edge technology, by introducing an advanced and smart performing battery Amaron Quanta S-XEL, a Tubular Power Packed Back Up Battery.

A source of 'Uninterrupted Power' for various core industries, this new generation Tubular battery is big in power storage and enduring in performance. As a company that is known for its obsession with technology, Amara Raja has been behind some of the best innovations in technology that India has seen.

Amaron Quanta S-XEL is a fail safe, fool proof battery, produced and tested in our state-of-the-art manufacturing facility. Built with the highest technical competence in its class, the Amaron Quanta S-XEL is an example of Amara Raja's commitment to bring the best of its technology. Amaron Quanta S-XEL is the industry's first product of acid circulation formation process technology among tubular batteries which enhances the life of the battery.

Truly, Amaron Quanta S-XEL, the Tubular battery is an innovative excellence that supplies instant power with consistent delivery and low self-discharge for uninterrupted power supply across every work segment.



- Banks
 IT Parks
 Corporate Establishments
- Tele communications
 Railways
 Power Plants & Substation

Design Features

UBULAR SERIES

Hi-coerce™ spine cast Bountiful Boss™ Panoptic Spine™ Satiated wet paste™ Endura cast™ Unified TermiSeal™ BIC™

ACS

User Benefits

High pressure spine casting (> 100 bar) provides uni-directional grains orientation with micro hardness extradite superior life	
Allows rapid charge & delivers high power. Optimized current dense & higher conductivity leading to last long	
Mitigates corrosion prone zone, provides high life – Really long	
Jnique wet pasting process, lowers resistance to delivers consistent power & low self discharge	
Automated cast-on-strap delivers durability & performance	
Rigid & Integrated terminal connectivity provides sustainable strength	
Best in class vent design reduces acid spewing , built-in flame arrestor avoids acid mist exit	
ndustry first acid circulation formation process enhances battery life	

Amaron Quanta S-Xel Tubular batteries Range

			ALC: NO DESCRIPTION				
Model	Nominal Voltage (V)	Capacity @C10hr at	Approx. Battery weight ±5%		Dimension (:	,	Constant potential
Wodor	at 27°C ′	1.80 ECV at 27°C (Ah)	(Kgs) with acid	Length (L)	Width (W)	Height (H)*	limiting current (Amps)
12ATL075	12	75	30.7	410	176	281	18.75
12ATL100	12	100	47.5	521	230	281	25
12ATL120	12	120	49	500	190	343	30
12ATL130	12	130	50	500	190	343	32.5
12ATL150	12	150	58	500	190	400	37.5
12ATL160	12	160	59	500	190	400	40
12ATL180	12	180	63	500	190	400	45

^{*}H - Height up to terminal top for 75AH & 100Ah & up to top cover for other models.

Charging Parameters

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 capacit			
Float Voltage 14.4 ± 0.1V /battery			
Boost Voltage	15.0 ± 0.1V /battery		
Over cutoff voltage	15.2V		
Under cutoff voltage	10.8V		

ISO 9001 : 2008 | ISO 14001 : 2004 | OHSAS 18001 : 2007





(An Amara Raja Johnson Controls Company)

Corporate Operations Office :

Terminal A,

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Email: mktq@amararaia.co.in. www.amararaja.co.in, www.quanta.in











12ATL075 (12V - 75Ah)

Tubular Battery

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.
- 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.



Specifications:

Nominal Voltage	75Ah		
Rated capacity @C10 at 27°C at 1.80CV			
	Length	410mm	
Dimensions (±3 mm)	Width	176mm	
	Height*	281mm	
Weight with acid in Kg (±5%)	30.7		

^{*}H - Height up to terminal top

Major Applications:

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

Applicable Standards

•Batteries Generally conforms to - IS 13369 spec.

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



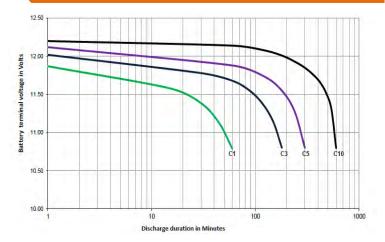




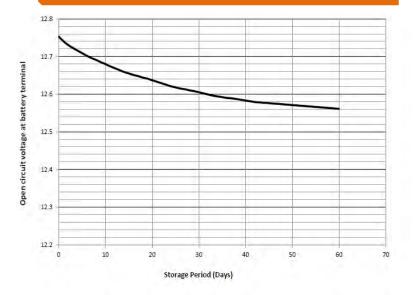




Discharge Characteristics



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 15.2VUnder 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 Manufacturing address

M/S. Amara Raja Batteries Ltd, UNIT II, Nunegundla palle, Bangarupalyam Mandal, Chittoor District, Andhra Pradesh – 517 416, India.

Register Office

Renigunta, Cuddapa Road, Karakambadi – 517 520, Tirupati. Chittoor District, Andhra Pradesh – 517 416, India

Corporate Office







12ATL100 (12V - 100Ah)

Tubular Battery

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.

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 SealTM - Rigid & Integrated terminal connectivity provides sustainable strength.



Specifications:

Nominal Voltage	12V	
Rated capacity @C10 at 27°C at 1.80CV	100Ah	
	Length	521mm
Dimensions (±3 mm)	Width	230mm
	Height*	281mm
Weight with acid in Kg (±5%)	47.5	
		

^{*}H - Height up to terminal top

Major Applications:

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

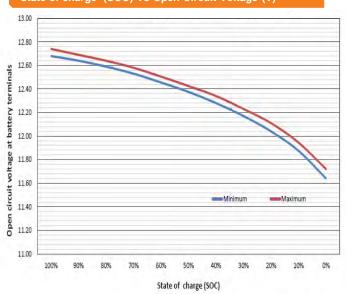
Applicable Standards

•Batteries Generally conforms to - IS 13369 spec.

Product Details:

end discharge

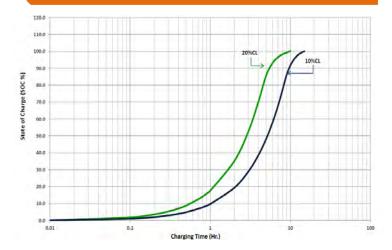
Type of +ve plate	Tubular
Type of -ve plate	Flat Pasted
AH efficiency	> 90%
WH efficiency	>80%
Terminal Type	L-Terminal with Antimony Lead Alloy
Type of separator	PE
Type of container	PPCP
Operating temp. range of battery	-20°C to +60°C
Self-discharge for 28days	≤5% (As per IS13369 ≤10%)
Recommended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



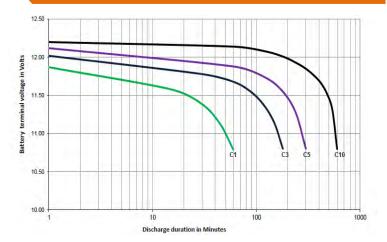




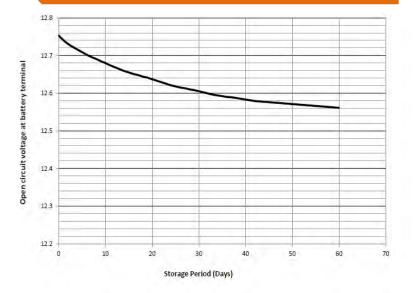




Discharge Characteristics



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 15.2VUnder 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 Manufacturing address

M/S. Amara Raja Batteries Ltd, UNIT II, Nunegundla palle, Bangarupalyam Mandal, Chittoor District, Andhra Pradesh – 517 416, India.

Register Office

Renigunta, Cuddapa Road, Karakambadi – 517 520, Tirupati. Chittoor District, Andhra Pradesh – 517 416, India

Corporate Office







12ATL120 (12V - 120Ah)

Tubular Battery

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.
- 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 1.80CV	120Ah	
	Length	500mm
Dimensions (±3 mm)	Width	190mm
	Height*	343mm
Weight with acid in Kg (±5%)	49.0	

*H - Height up to top of cover

Product Details:

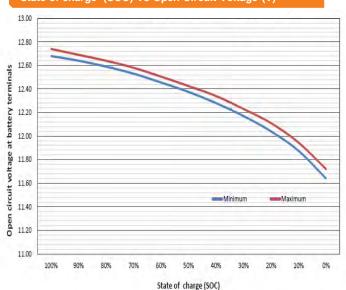
Type of +ve plate	Tubular
Type of -ve plate	Flat Pasted
AH efficiency	> 90%
WH efficiency	>80%
Terminal Type	L-Terminal with Antimony Lead Alloy
Type of separator	PE
Type of container	PPCP
Operating temp. range of battery	-20°C to +60°C
Self-discharge for 28days	≤5% (As per IS13369 ≤10%)
Recommended 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

Major Applications:

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

Applicable Standards

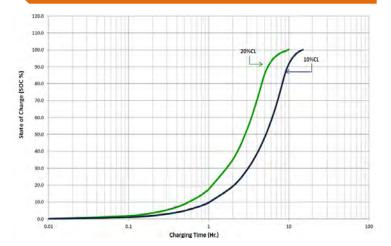
•Batteries Generally conforms to - IS 13369 spec.



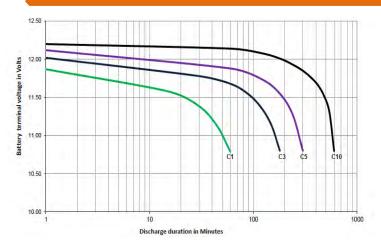




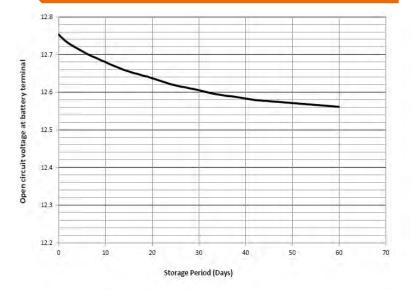




Discharge Characteristics



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 15.2VUnder 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 Manufacturing address

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Register Office

Renigunta, Cuddapa Road, Karakambadi – 517 520, Tirupati. Chittoor District, Andhra Pradesh – 517 416, India

Corporate Office







12ATL130 (12V - 130Ah)

Tubular Battery

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.
- 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 1.80CV	130Ah	
	Length	500mm
Dimensions (±3 mm)	Width	190mm
	Height*	343mm
Weight with acid in Kg (±5%)	50.0	
		

^{*}H - Height up to top cover

Product Details:

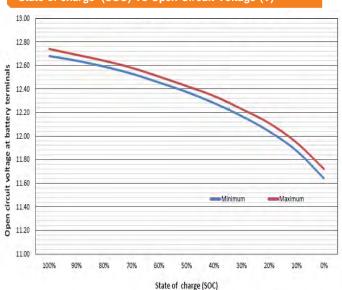
Type of +ve plate	Tubular
Type of -ve plate	Flat Pasted
AH efficiency	> 90%
WH efficiency	>80%
Terminal Type	L-Terminal with Antimony Lead Alloy
Type of separator	PE
Type of container	PPCP
Operating temp. range of battery	-20°C to +60°C
Self-discharge for 28days	≤5% (As per IS13369 ≤10%)
Recommended 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

Major Applications:

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

Applicable Standards

•Batteries Generally conforms to - IS 13369 spec.



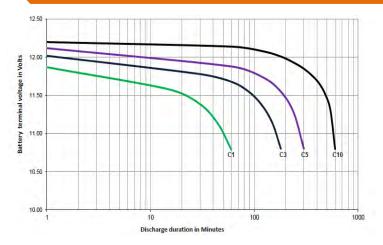




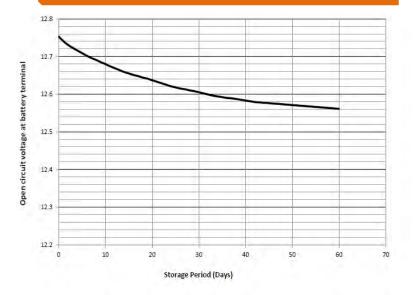




Discharge Characteristics



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 15.2VUnder 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:

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Register Office

Renigunta, Cuddapa Road, Karakambadi – 517 520, Tirupati. Chittoor District, Andhra Pradesh – 517 416, India

Corporate Office







12ATL150 (12V - 150Ah)

Tubular Battery

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.
- 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 1.80CV	150Ah	
	Length	500mm
Dimensions (±3 mm)	Width	190mm
	Height*	400mm
Weight with acid in Kg (±5%)	58.0	
	_	

*H - Height up to top of cover

Product Details:

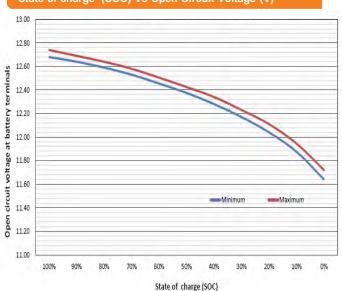
Type of +ve plate	Tubular	
Type of -ve plate	Flat Pasted	
AH efficiency	> 90%	
WH efficiency	>80%	
Terminal Type	L-Terminal with Antimony Lead Alloy	
Type of separator	PE	
Type of container	PPCP	
Operating temp. range of battery	-20°C to +60°C	
Self-discharge for 28days	≤5% (As per IS13369 ≤10%)	
Recommended 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	

Major Applications:

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

Applicable Standards

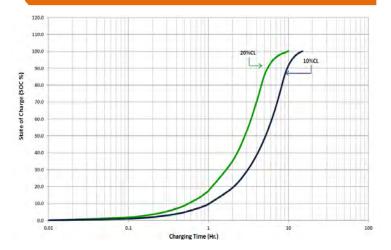
•Batteries Generally conforms to - IS 13369 spec.



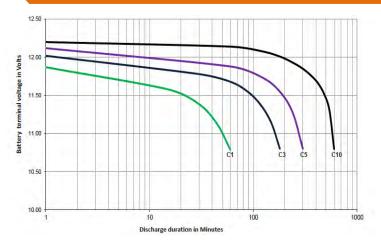




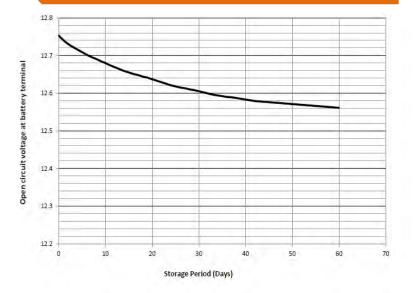




Discharge Characteristics



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 15.2VUnder 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 Manufacturing address

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Register Office

Renigunta, Cuddapa Road, Karakambadi – 517 520, Tirupati. Chittoor District, Andhra Pradesh – 517 416, India

Corporate Office







12ATL160 (12V - 160Ah)

Tubular Battery

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.
- 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 1.80CV	160Ah	
	Length	500mm
Dimensions (±3 mm)	Width	190mm
	Height*	400mm
Weight with acid in Kg (±5%)	59.0	

^{*}H - Height up to top of cover

Product Details:

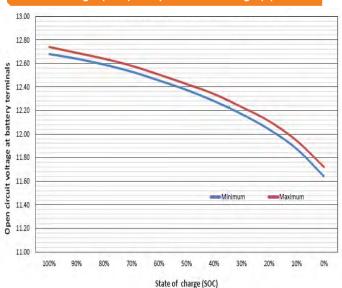
Type of +ve plate	Tubular
Type of -ve plate	Flat Pasted
AH efficiency	> 90%
WH efficiency	>80%
Terminal Type	L-Terminal with Antimony Lead Alloy
Type of separator	PE
Type of container	PPCP
Operating temp. range of battery	-20°C to +60°C
Self-discharge for 28days	≤5% (As per IS13369 ≤10%)
Recommended 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

Major Applications:

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

Applicable Standards

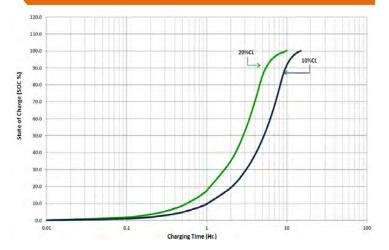
•Batteries Generally conforms to - IS 13369 spec.



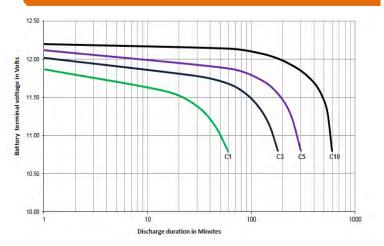




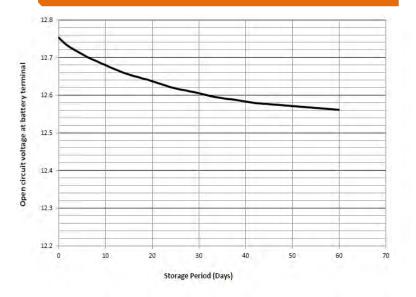




Discharge Characteristics



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 15.2VUnder 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 Manufacturing address

M/S. Amara Raja Batteries Ltd, UNIT II, Nunegundla palle, Bangarupalyam Mandal, Chittoor District, Andhra Pradesh – 517 416, India.

Register Office

Renigunta, Cuddapa Road, Karakambadi – 517 520, Tirupati. Chittoor District, Andhra Pradesh – 517 416, India

Corporate Office







12ATL180 (12V - 180Ah)

Tubular Battery

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.
- 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 1.80CV	180Ah	
	Length	500mm
Dimensions (±3 mm)	Width	190mm
	Height*	400mm
Weight with acid in Kg (±5%)	63.0	
-	_	

^{*}H - Height up to top cover

Product Details:

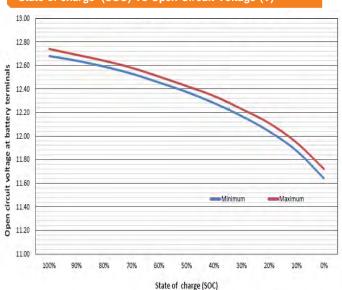
Type of +ve plate	Tubular
Type of -ve plate	Flat Pasted
AH efficiency	> 90%
WH efficiency	>80%
Terminal Type	L-Terminal with Antimony Lead Alloy
Type of separator	PE
Type of container	PPCP
Operating temp. range of battery	-20°C to +60°C
Self-discharge for 28days	≤5% (As per IS13369 ≤10%)
Recommended 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

Major Applications:

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

Applicable Standards

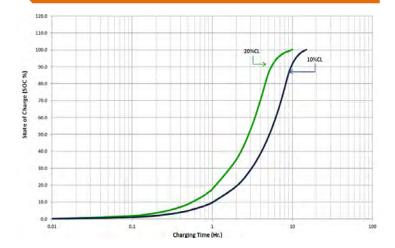
•Batteries Generally conforms to - IS 13369 spec.



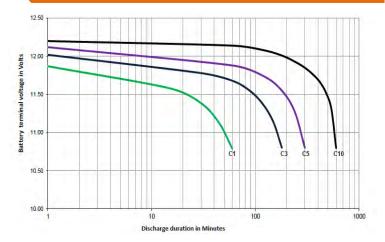




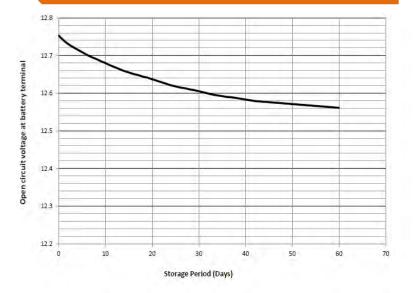




Discharge Characteristics



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 15.2VUnder 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

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