

12AL007



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	7Ah / C ₂₀ Hr / 1.75VPC / 27°C	
Dimensions (±2mm)	Length	151 mm (5.94 in.)
	Width	65 mm (2.25 in.)
	Total Height	100 mm (3.39 in.)
Weight (±5%)	2.2 Kg (4.85 lbs)	
Terminal Type	F1/F2 (Faston tab)	
Capacity @ 27°C	6.40 Ah	(10hr, 0.64 A, 10.5 V/battery)
	5.90 Ah	(5hr, 1.18 A, 10.2 V/battery)
	4.23 Ah	(1hr, 4.23 A, 9.6V /battery)
Case Material	Acrylonitrile Butadiene Styrene (ABS)	
Internal Resistance (IR)	Approx. 25 mΩ for a fully charged battery (27°C)	
Max. discharge current (5 sec)	105 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	13.5 to 13.8V/battery
	Charging Current	Max. 25% of rated capacity
	Temp. Compensation	± 18mV/battery/°C
Cyclic use (27°C)	Charging Voltage	14.4 to 14.7V/battery
	Charging Current	Max. 25% of rated capacity
	Temp. Compensation	± 30mV/battery/°C
Self-Discharge	< 4% per month at 27°C	

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

ECV/ Time	10 min	15 min	30 min	60 min	2 hrs	3 hrs	5 hrs	10 hrs	20 hrs
1.60	15.33	12.29	7.35	4.23	2.52	1.80	1.26	0.67	0.38
1.70	14.39	11.24	6.72	4.09	2.34	1.70	1.18	0.66	0.37
1.75	13.86	10.92	6.62	4.00	2.29	1.65	1.12	0.64	0.35

Constant Power discharge rating (watts per battery) @ 27°C *

ECV/ Time	10 min	15 min	30 min	60 min	2 hrs	3 hrs	5 hrs	10 hrs	20 hrs
1.60	176.16	133.62	85.45	44.78	26.79	20.97	14.24	8.42	4.36
1.70	170.29	129.26	82.78	43.45	26.12	20.54	13.94	8.24	4.30
1.75	163.92	124.90	80.30	42.18	25.57	20.12	13.70	8.12	4.24

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.

**Design improvement is a continuous process of Amara Raja. As a result, specifications are subject to change without prior notice





CAUTION

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



THE LONG LIFE UPS BATTERY



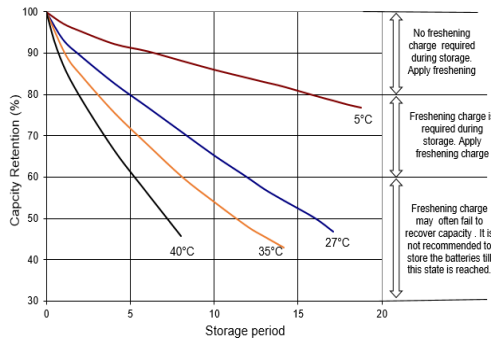
Features

- ✓ Proven AGM technology that ensures maintenance free characteristics
- ✓ Low self-discharge rates for extended storage periods
- ✓ Design float life of up to 6 years
- ✓ Clean and Sleek looks

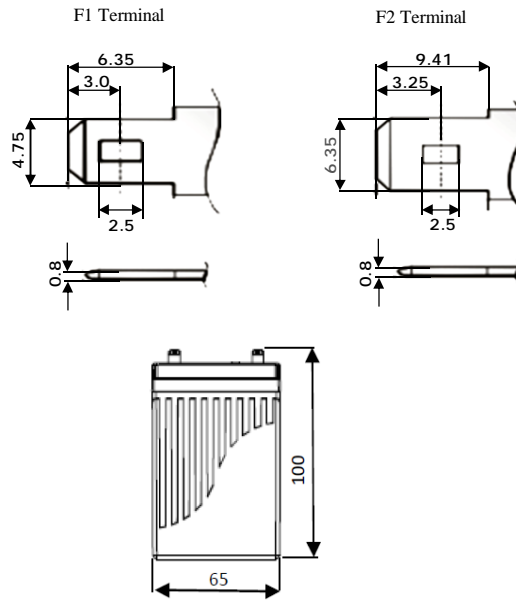
Compliance

- ✓ Complies to JIS C 8702
- ✓ UL (UL-1989) & CE Certified
- ✓ Complies to IEC 61056
- ✓ Complies to IEC 60896

Shelf Life Characteristics



Battery Layout



Applications

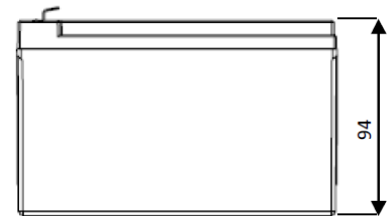
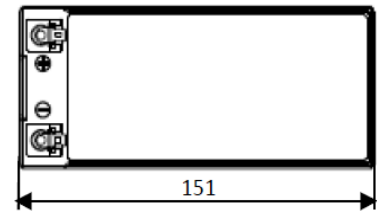
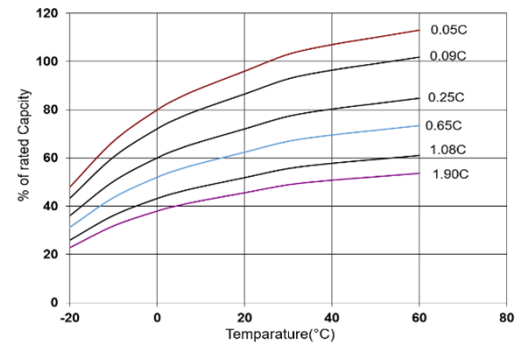
- ✓ Small UPS System
- ✓ Emergency Lighting
- ✓ Fire Alarm System
- ✓ Safety, Surveillance & Security Systems
- ✓ Medical Equipment

Quality Standards

Manufactured in best-in-class facility certified to

- ✓ ISO 9001: 2015
- ✓ ISO 14001: 2015
- ✓ ISO 45001:2018

Temperature Effect on Capacity



AMARA RAJA BATTERIES LIMITED

- **CORPORATE OPERATIONS OFFICE:**
Terminal A, 1-18/1/AMR/NR, Nanakramguda, Gachibowli, Hyderabad-500032, INDIA, [E-Mail: mktg@amararaja.com](mailto:mktg@amararaja.com)
www.amararajabatteries.com
- **REGISTERED OFFICE & Manufacturing Facility-1:**
UNIT-I, Karakambadi - 517520, Tirupati, Andhra Pradesh, INDIA, TEL: +91-877-2265000, FAX: +91-877-2285600
- **Manufacturing Facility-2**
UNIT-II, Nunegundlapalle, Bangarupalyam, Chittoor - 517416, Andhra Pradesh, INDIA



ARBL/IAE/AQ/07Ah; May'2022, Rev-00

Battery Particulars

- Battery Type : Maintenance Free Valve Regulated Lead Acid (MF-VRLA)
- Battery Rating : 12V-7.2Ah to 10.5 EMV @ C20 at 27°C
- Manufacturers Model No : 12AL007
- Volts/Module : 12 volts
- Module dimensions (L x W H)±2mm : (151 X 65 X 101) mm Approx.
- Module weight ±5% : 2.47Kg. Approx.
- Terminal Type : F2 (Faston tab)

Charge Regime

- Batteries shall be charged in constant potential mode with current limit.
- Stand by charging voltage : 13.5 to 13.8 volts per module @ 27°C
- Cyclic charging voltage : 14.2 to 14.4 Volts Per Cell @ 27°C
- Charging current Limit : 0.72Amps minimum to 1.80Amps maximum
- Temperature compensation : Stand by: -18mV/°C/battery, Cyclic: -30mV/°C/battery

Product Details

- AH efficiency : Above 95%
- WH efficiency : Above 85%
- Self Discharge/Week @ 27°C : < 1% of rated capacity
- Recommended Max. period of storage : 3 Months from the date of manufacturing and the batteries shall be Stored in covered area at 27°C
- Poly Material : Acrylonitrile Butadiene Styrene (ABS)
- Type of separator : Highly absorbent Micro porous spun glass matrix.(AGM)
- Type of +ve & -ve plates : Flat pasted.
- Internal resistance (fully charged) approx. : <25mΩ at 27°C
- Max. discharge current (5 sec) : 108A
- Voltage ripple allowable : <2% of RMS value

Applicable Standards

- Batteries generally conforms to JIS 8702C International Standard

Constant current discharge rating - amps at 27° C

ECV/Duration	10min	15min	30min	60min	2hr	3hr	5hr	10hr	20hr
1.6	16.3	13	7.8	4.7	2.8	1.9	1.3	0.7	0.4
1.7	15.3	11.9	7.2	4.55	2.6	1.8	1.22	0.68	0.38
1.75	14.7	11.6	7.1	4.45	2.55	1.75	1.16	0.66	0.36
1.8	14.1	11.3	7.0	4.35	2.50	1.70	1.10	0.64	0.34

Constant power discharge rating - watts at 27° C

ECV/Duration	10min	15min	30min	60min	2hr	3hr	5hr	10hr	20hr
1.6	199.5	156.8	92.7	58	35.7	23.4	16	8.5	4.6
1.7	195.8	146.2	88.6	55.9	32.7	22.1	15	8.4	4.4
1.75	185.7	140.9	86.8	54.9	31.3	21.7	14.6	8.3	4.3
1.8	175.6	135.6	84.9	53.8	29.9	21.2	14.2	8.2	4.2

Note: 1. The above data are average values per battery and can be obtained within five charge/discharge cycles.
 2. A tolerance of ±5% is applicable for the above constant power discharge and constant current discharge values.

Battery Particulars

- Battery Type : Maintenance Free Valve Regulated Lead Acid (MF-VRLA)
- Battery Rating : 12V-9Ah to 10.5 EMV @ C20 at 27°C
- Manufacturers Model No : 12AL009
- Volts/Module : 12 volts
- Module dimensions (L x W H)±2mm : (151 X 65 X 100) mm Approx.
- Module weight ±5% : 2.7Kg. Approx.
- Terminal Type : F2 (Faston tab)

Charge Regime

- Batteries shall be charged in constant potential mode with current limit.
- Stand by charging voltage : 13.5 to 13.8 volts per module @ 27°C
- Cyclic charging voltage : 14.4 to 15.0 Volts Per Cell @ 27°C
- Charging current Limit : 0.90Amps minimum to 2.25Amps maximum
- Temperature compensation : Stand by: -18mV/°C/battery, Cyclic: -30mV/°C/battery

Product Details

- AH efficiency : Above 95%
- WH efficiency : Above 85%
- Self Discharge/Week @ 27°C : < 1% of rated capacity
- Recommended Max. period of storage : 3 Months from the date of manufacturing and the batteries shall be Stored in covered area at 27°C
- Poly Material : Acrylonitrile Butadiene Styrene (ABS)
- Type of separator : Highly absorbent Micro porous spun glass matrix.(AGM)
- Type of +ve & -ve plates : Flat pasted.
- Internal resistance (fully charged) approx. : 14mΩ at 27°C
- Max. discharge current (5 sec) : 135A
- Voltage ripple allowable : < 2% of the RMS Value

Applicable Standards

- Batteries generally conforms to JIS 8702C International Standard

Constant current discharge rating - amps at 27° C

ECV/Duration	10min	15min	30min	60min	2hr	3hr	5hr	10hr	20hr
1.6	25.20	18.00	10.20	5.57	2.93	2.34	1.58	0.88	0.47
1.7	22.90	16.50	9.35	5.45	2.84	2.27	1.55	0.89	0.46
1.75	21.90	15.80	8.93	5.37	2.78	2.23	1.53	0.89	0.45
1.8	20.40	14.90	8.45	5.29	2.72	2.18	1.51	0.84	0.44

Constant power discharge rating - watts at 27°C

ECV/Duration	10min	15min	30min	60min	2hr	3hr	5hr	10hr	20hr
1.6	276.2	205.7	108.6	65.5	34.0	27.7	18.2	10.3	5.2
1.7	251.4	190.5	101.0	62.7	33.2	26.4	17.7	10.0	5.2
1.75	240.0	184.8	97.1	61.1	32.5	25.6	17.4	9.8	5.2
1.8	222.9	178.1	92.7	59.4	31.8	24.9	17.0	9.6	5.0

Note: 1. The above data are average values per battery and can be obtained within five charge/discharge cycles.
 2. A tolerance of ±5% is applicable for the above constant power discharge and constant current discharge values.

Battery Particulars

- Battery Type : Maintenance Free Valve Regulated Lead Acid (MF-VRLA)
- Battery Rating : 12V-12Ah to 10.5 EMV @ C20 at 27°C
- Manufacturers Model No : 12AL012
- Volts/Module : 12 volts
- Module dimensions (L x W H)±2mm : (151 X 98 X 99) mm Approx.
- Module weight ±5% : 3.75Kg. Approx.
- Terminal Type : F2 (Faston tab)

Charge Regime

- Batteries shall be charged in constant potential mode with current limit.
- Stand by charging voltage : 13.5 to 13.8 volts per module @ 27°C
- Cyclic charging voltage : 14.4 to 15.0 Volts Per Cell @ 27°C
- Charging current Limit : 1.2Amps minimum to 3.0Amps maximum
- Temperature compensation : Stand by: -18mV/°C/battery, Cyclic: -30mV/°C/battery

Product Details

- AH efficiency : Above 95%
- WH efficiency : Above 85%
- Self Discharge/Week @ 27°C : < 1% of rated capacity
- Recommended Max. period of storage : 3 Months from the date of manufacturing and the batteries shall be Stored in covered area at 27°C
- Poly Material : Acrylonitrile Butadiene Styrene (ABS)
- Type of separator : Highly absorbent Micro porous spun glass matrix.(AGM)
- Type of +ve & -ve plates : Flat pasted.
- Internal resistance (fully charged) : 13.0mΩ at 27°C
- Max. discharge current (5 sec) : 180A
- Voltage ripple allowable : < 2% of the RMS Value

Applicable Standards

- Batteries generally conforms to JIS 8702C International Standard

Constant current discharge rating - amps at 27° C

ECV/Duration	10min	15min	30min	60min	2hr	3hr	5hr	10hr	20hr
1.6	32.70	24.20	13.50	8.82	4.68	3.29	2.23	1.25	0.64
1.7	30.70	22.90	13.00	8.63	4.56	3.19	2.14	1.22	0.62
1.75	29.40	22.10	12.60	8.52	4.47	3.13	2.08	1.20	0.60
1.8	28.10	21.30	12.10	8.40	4.36	3.06	2.03	1.18	0.58

Constant power discharge rating - watts at 27°C

ECV/Duration	10min	15min	30min	60min	2hr	3hr	5hr	10hr	20hr
1.6	348.6	266.3	150.3	100.0	53.3	36.7	25.6	14.4	7.5
1.7	327.4	252.0	145.1	97.1	52.2	35.4	24.6	14.1	7.2
1.75	313.7	243.4	140.6	95.4	51.7	34.6	23.9	13.9	7.1
1.8	300.0	234.3	134.9	93.1	51.0	33.5	23.3	13.7	6.9

Note: 1. The above data are average values per battery and can be obtained within five charge/discharge cycles.
 2. A tolerance of ±5% is applicable for the above constant power discharge and constant current discharge values.

12AL018



AMARON QUANTA™

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

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

Specification

Nominal Voltage	12V	
Rated Capacity	18Ah / C ₂₀ Hr / 1.75VPC / 27°C	
Dimensions (±2mm)	Length	181mm (7.12 in.)
	Width	77mm (3.03 in.)
	Total Height	167mm (6.57 in.)
Weight (±5%)	5.52 Kg (12.16 lbs.)	
Terminal Type	M5 Bolted	
Capacity @ 27°C	16.80 Ah	(10hr, 1.68 A, 10.5 V/battery)
	15.40 Ah	(5hr, 3.08A , 10.2 V/battery)
	11.25 Ah	(1hr,11.25A,9.6V/battery)
Case Material	Acrylonitrile Butadiene Styrene (ABS)	
Internal Resistance (IR)	Approx. 14 mΩ for a fully charged battery (27°C)	
Max. discharge current (5 sec)	270 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	13.5 to 13.8V/battery
	Charging Current	Max. 25% of rated capacity
	Temp. Compensation	± 18mV/battery/°C
Cyclic use (27°C)	Charging Voltage	14.4 to 14.7V/battery
	Charging Current	Max. 25% of rated capacity
	Temp. Compensation	± 30mV/battery/°C
Self-Discharge	< 4% per month at 27°C	

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

ECV/ Time	10 min	15 min	30 min	60 min	2 hrs	3 hrs	5 hrs	10 hrs	20hrs
1.60	41.87	33.46	20.16	12.04	7.30	5.00	3.44	1.75	0.96
1.70	39.33	30.59	18.54	11.73	6.71	4.69	3.18	1.71	0.92
1.75	37.83	29.90	18.35	11.59	6.62	4.68	3.17	1.68	0.90

Constant Power discharge rating (watts per battery) @ 27°C *

ECV/ Time	10 min	15 min	30 min	60 min	2 hrs	3 hrs	5 hrs	10 hrs	20 hrs
1.60	498.80	386.33	213.31	141.20	85.14	56.92	38.18	21.78	11.68
1.70	484.80	365.60	209.27	138.17	81.70	55.40	37.60	21.29	11.28
1.75	462.50	352.30	205.03	136.25	78.20	54.20	36.70	21.14	11.09

Note:

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



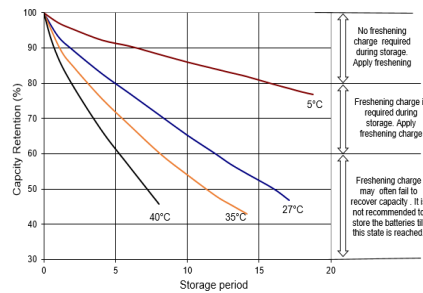
Features

- ✓ Proven AGM technology that ensures maintenance free characteristics
- ✓ Low self-discharge rates for extended storage periods
- ✓ Design float life of up to 6 years
- ✓ Clean and Sleek looks

Compliance

- ✓ Complies to JIS C 8702
- ✓ UL (UL-1989) & CE Certified
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Shelf Life Characteristics



Applications

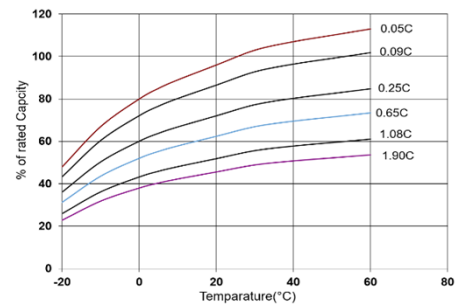
- ✓ Small UPS System
- ✓ Emergency Lighting
- ✓ Fire Alarm System
- ✓ Safety, Surveillance & Security Systems
- ✓ Medical Equipment

Quality Standards

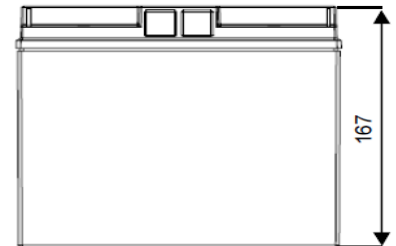
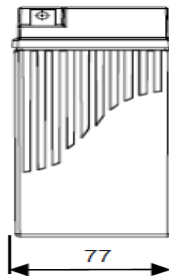
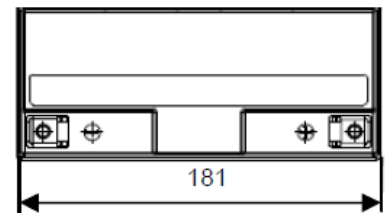
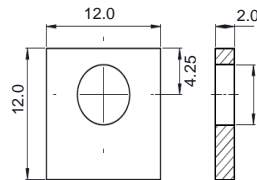
Manufactured in best-in-class facility certified to

- ✓ ISO 9001: 2015
- ✓ ISO 14001: 2015
- ✓ ISO 45001:2018

Temperature Effect on Capacity



Battery Layout



AMARA RAJA BATTERIES LIMITED

- **CORPORATE OPERATIONS OFFICE:**
Terminal A, 1-18/1/AMR/NR, Nanakramguda, Gachibowli, Hyderabad-500032, INDIA, [E-Mail: mkte@amararaja.com](mailto:mkte@amararaja.com)
www.amararajabatteries.com
- **REGISTERED OFFICE & Manufacturing Facility-1:**
UNIT-I, Karakambadi - 517520, Tirupati, Andhra Pradesh, INDIA, TEL: +91-877-2265000, FAX: +91-877-2285600
- **Manufacturing Facility-2**
UNIT-II, Nunegundlapalle, Bangarupalyam, Chittoor - 517416. Andhra Pradesh, INDIA



ARBL/IAE/AQ/18Ah; May'2022, Rev-00

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AMARON QUANTA™

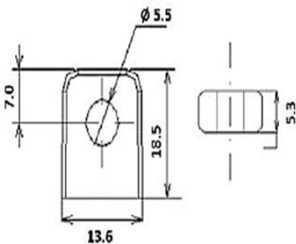
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In short, the lifeline to your UPS applications

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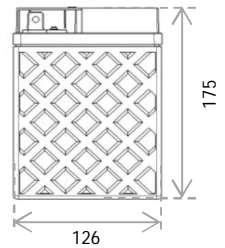
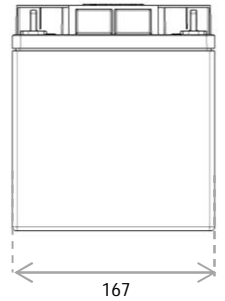
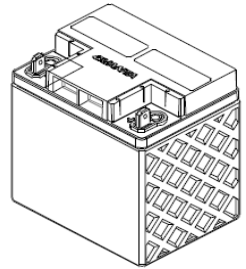
TERMINAL LAYOUT



All dimensions are in mm

Specification

Nominal Voltage	12V	
Rated Capacity	26Ah / C ₂₀ Hr / 1.75VPC / 27°C	
Dimensions (±2mm)	Length	167 mm (6.57 in.)
	Width	126 mm (4.96 in.)
	Total Height	175 mm (6.89 in.)
Weight (±5%)	8.4 Kg (18.52 lbs)	
Terminal Type	M5 x 20 mm Bolted	
Capacity @ 27°C	24.20 Ah	(10hr, 2.42 A, 10.5 V/battery)
	22.30 Ah	(5hr, 4.46 A, 10.2 V/battery)
	16.88 Ah	(1hr, 16.88 A, 9.6V /battery)
Capacity affected (Temperature at C20 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 (12AL026)
	FR Version	UL 94-V0 (12ALZ026)
Internal Resistance (IR)	Approx. 9.8 mΩ for a fully charged battery (27°C)	
Short Circuit Current (As per IEC)	1278 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	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	± 30mV/battery/°C
Self-Discharge	< 4% per month at 27°C	



Constant Power Discharge Rating (Watts Per Battery) @ 27°C *

ECV/ Time	10min	15min	20min	30 min	60min	2hrs	3hrs	5hrs	8hrs	10hrs	20hrs
1.60	716	557	456	340	211	120	82.0	56.0	36.0	31.0	15.0
1.65	712	548	448	330	207	119	81.0	55.0	35.5	30.5	14.5
1.70	707	538	440	320	202	118	80.0	54.0	35.0	30.0	14.0
1.75	673	518	424	311	198	117	79.5	53.5	34.5	29.5	13.5
1.80	638	498	408	302	193	116	79.0	53.0	34.0	29.0	13.0

Constant Current Discharge Rating (Amperes) @ 27°C *

ECV/ Time	10min	15min	20min	30min	60min	2 hrs	3 hrs	5 hrs	8hrs	10 hrs	20 hrs
1.60	58.72	46.93	37.25	28.26	16.88	10.24	7.00	4.82	2.99	2.53	1.39
1.65	56.93	44.92	35.89	27.13	16.67	9.83	6.79	4.64	2.92	2.50	1.36
1.70	55.14	42.90	34.53	26.00	16.46	9.41	6.58	4.46	2.86	2.47	1.32
1.75	53.06	41.94	34.21	25.74	16.25	9.29	6.57	4.44	2.84	2.42	1.30
1.80	52.00	41.27	33.33	25.49	15.55	9.22	6.53	4.41	2.83	2.41	1.29

Note:

- The above data are average values per battery and can be obtained within five charge/discharge cycle
- A tolerance of ±5% is applicable for the above constant power discharge and constant current discharge values.
- Recommended to follow IEEE -485 Standard for Battery sizing (In terms of Aging Margin, Design Margin) for Optimal Performance & Life.
- 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 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
- ✓ 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

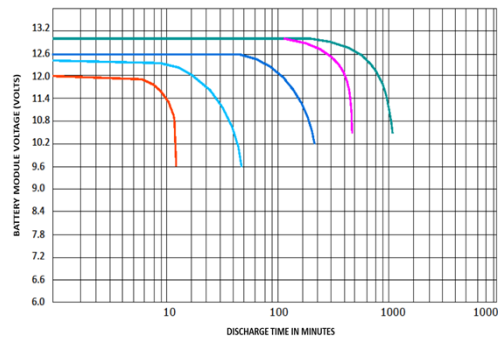
Compliance

- ✓ 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

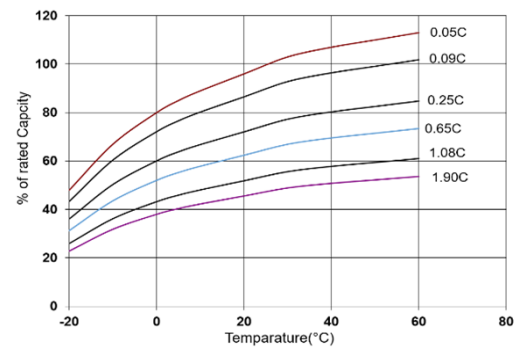
Applications

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

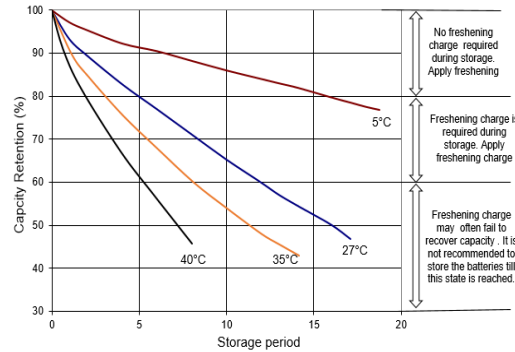
Discharge Characteristics



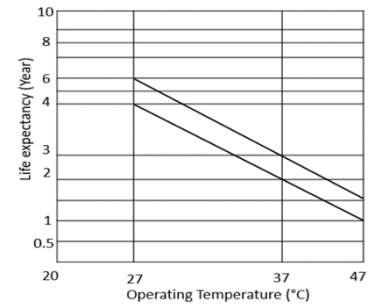
Temperature Effect on Capacity



Shelf Life Characteristics



Float Service Life vs. Temperature



AMARA RAJA BATTERIES LIMITED

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