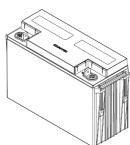
12AL130 12ALZ130

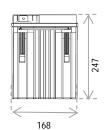


Specification

Nominal Voltage		12V					
Rated Capacity		130Ah / C ₂₀ Hr / 1.75VPC / 27°C					
	Length	445 mm (17.52 in.) 168 mm (6.61 in.) 247 mm (9.72 in.)					
Dimensions (±2mm)	Width						
	Total Height						
Weight (±5%)	42.0 Kg (92.59						
Terminal Type	M6 x 25mm Bolted						
	121.00 Ah	(10hr, 12.10 A, 10.5 V/battery)					
Capacity @ 27°C	111.50 Ah	(5hr, 22.30 A, 10.2 V/battery)					
	84.42 Ah	(1hr, 84.42 A, 9.6V /battery)					
	40°C (104°F)	110%					
Capacity affected	27°C (80.6°F)	100%					
(Temperature at C20 hr rate)	0°C (32°F)	80%					
	-15°C (5°F)	60%					
Case Material	Standard	PPCP (12AL130)					
Case Material	FR Version UL 94-V0 (12ALZ						
Internal Resistance (IR)	Approx. 4.54 mΩ for a fully charged battery (27°C)						
Short Circuit Current (As per IEC)		2803 A					
Operating Temp. range	-20°C to +60°C	C (50 to 60°C for shorter duration)					
Nominal Operating Temp. range		27°C ± 3°C					
	Charging Voltage	13.5 V/battery					
Standby use (27°C)	Charging Current	Max. 25% of rated capacity					
	Temp. Compensation	± 18mV/battery/°C					
	Charging Voltage	13.8 V/battery					
Cyclic use (27°C)	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	30min	60min	2hrs	3hrs	5hrs	8hrs	10hrs	20hrs
1.60	3128	2602	1965	1608	919	557	403.0	279.0	183.0	148.0	79.0
1.65	3073	2543	1945	1558	904	549	400.0	274.5	179.0	147.5	78.5
1.70	3017	2483	1924	1508	889	541	397.0	270.0	176.5	147.0	78.0
1.75	2886	2365	1888	1482	861	532	394.0	266.0	173.0	146.0	77.5

833

Constant Current Discharge Rating (Amperes) @ 27°C *											
ECV/ Time	10min	15min	20 min	30min	60 min	2 hrs	3 hrs	5 hrs	8hrs	10 hrs	20 hrs
1.60	293.59	234.66	186.25	141.30	84.42	51.20	34.99	24.09	14.94	12.64	6.96
1.65	284.70	224.60	179.40	135.70	83.40	49.10	33.90	23.20	14.60	12.50	6.80
1.70	275.72	214.52	172.64	130.00	82.28	47.05	32.88	22.30	14.29	12.33	6.61
1.75	265.31	209.68	171.05	128.71	81.25	46.43	32.83	22.22	14.21	12.10	6.50
1.80	260.00	206.35	166.67	127.45	77.75	46.10	32.66	22.03	14.13	12.04	6.47

AMARON QUANTATM

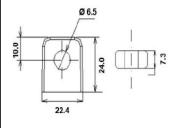
The industrial segment SMF-VRLA (Valve Regulated Lead Acid) battery for UPS applications is built to perform.

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

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.

1852

1456



391.0 262.0 170.0



CAUTION

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







Performance

A clutch of design features ensures that AMARON QUANTA $^{\!\mathsf{TM}}$

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™ 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

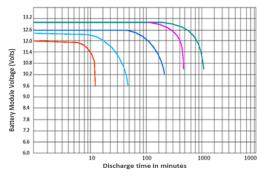
Compliance

- ✓ 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

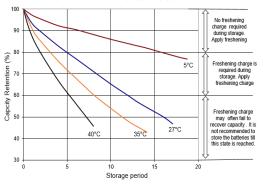
Applications

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

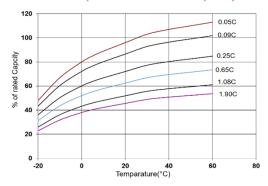
Discharge Characteristics



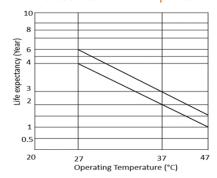




Temperature Effect on Capacity



Float Service Life vs. Temperature



AMARA RAJA ENERGY & MOBILITY LIMITED

(Formerly Known as Amara Raja Batteries Limited)

• Corporate Operations Office:

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Manufacturing Facility-2

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ARE&M/IAE/AQ/130Ah; Oct'2023, Rev-01