



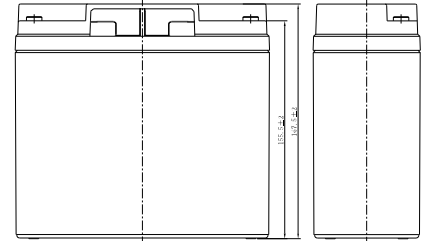
EUROTECH BATTERY

DATA SHEET FOR WWW.AUTOALL.AZ

Specifications **EB12-20**

Rated Voltage	12V	
Nominal Capacity	20.0Ah	(C ₂₀ , 1.75V/cell)
Dimension	Length	181.5±2mm (7.14 inches)
	Width	76.5±1mm (3.01 inches)
	Container Height	167.5±2mm (6.59 inches)
	Total Height	167.5±2mm (6.59 inches)
Approx Weight	5.78 Kg (12.74 lbs)	
Terminal	M5	
Container Material	ABS	
Rated Capacity (25°C)	20.0 Ah	(20hr, 1.00A, 1.75V/cell)
	18.9 Ah	(10hr, 1.89A, 1.75V/cell)
	17.2 Ah	(5hr, 3.44A, 1.75V/cell)
	15.3 Ah	(3hr, 5.10A, 1.75V/cell)
	13.1 Ah	(1hr, 13.1A, 1.60V/cell)
Max. Discharge Current	300A (5s)	
Internal Resistance (25°C)	Approx. 14mΩ	
Operating Temp. Range	Discharge	-15~50°C (5~122°F)
	Charge	0~40°C (32~104°F)
	Storage	-15~40°C (5~104°F)

Layout



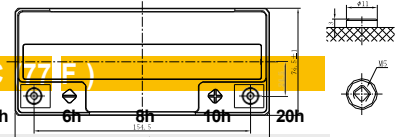
DATA SHEET FOR WWW.AUTOALL.AZ

Nominal Operating Temp. Range 25±3°C (77±5°F)

Initial Charging Current less than 6.0A, Voltage															
14.4V~15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C															
Cycle Use	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h			
Standby Use	61.6	42.4	33.0	28.9	24.4	19.9	15.4	11.9	8.71	6.35	4.94	3.94			
1.80V/cell	66.2	45.0	34.6	27.9	20.4	14.6	12.1	8.89	6.97	5.02	3.99	3.35			
1.75V/cell	69.8	46.8	35.8	28.7	20.9	15.2	12.4	9.06	7.10	5.10	4.05	3.44			
Effect of temp. to Capacity				25°C (77°F)	20°C (68°F)	15°C (59°F)	10°C (50°F)	5°C (41°F)	0°C (32°F)	103%	100%	96%			
1.70V/cell	73.1	48.7	37.0	29.5	21.4	15.5	12.6	9.21	7.20	5.18	4.10	3.49			
1.67V/cell	75.6	50.0	37.9	30.1	21.8	15.7	12.8	9.33	7.28	5.23	4.14	3.52			
1.60V/cell	80.2	52.1	39.2	31.0	22.4	16.1	13.1	9.53	7.43	5.32	4.22	3.58			
Self Discharge				LP series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.								3.05	2.39	1.95	1.03

Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	116.5	80.7	63.2	51.7	38.2	28.0	23.0	17.0	13.4	9.71	7.76	6.62	5.68	4.48	3.67	1.96
1.80V/cell	124.1	85.0	65.9	53.5	39.2	28.7	23.5	17.3	13.6	9.85	7.85	6.70	5.76	4.54	3.72	1.98
1.75V/cell	129.3	87.8	67.7	54.7	40.1	29.2	23.9	17.6	13.8	10.0	7.95	6.78	5.82	4.59	3.75	2.00
1.70V/cell	134.1	90.7	69.5	56.0	40.9	29.7	24.3	17.8	14.0	10.1	8.05	6.86	5.88	4.63	3.79	2.02
1.67V/cell	137.6	92.7	71.0	57.0	41.5	30.1	24.6	18.0	14.1	10.2	8.11	6.91	5.93	4.66	3.81	2.03
1.60V/cell	143.1	95.4	73.0	58.4	42.4	30.7	25.0	18.3	14.4	10.4	8.23	7.00	6.00	4.73	3.86	2.05



Applications

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto control system

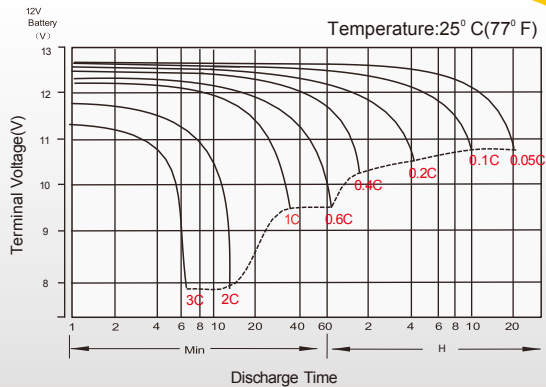
General Features

- 5 years design life(25°C)
- Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
- PbCaSn alloy for plate grids: less gassing, less self-discharging
- High quality AGM separator: extend cycle life and prevent micro short circuit
- High purity raw material: ensure low self discharge rate

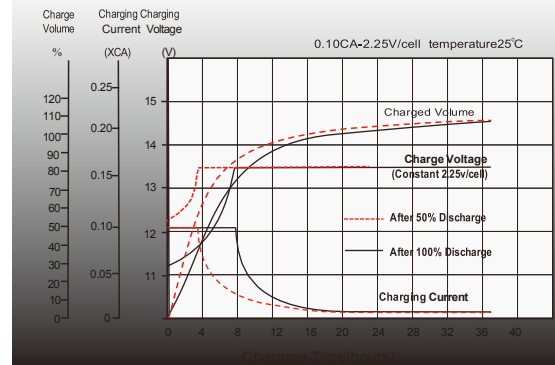
Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch®IATF16949, ISO45001,ISO 9001 and ISO 14001 certified production facilities

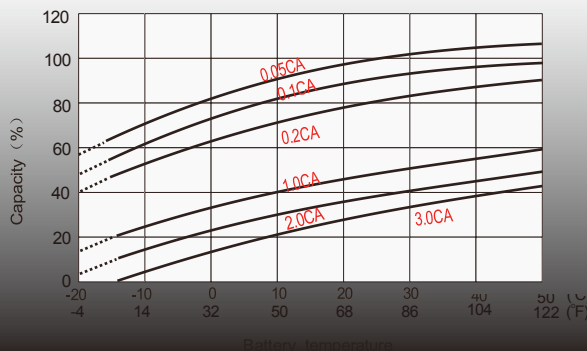
Discharge Characteristics



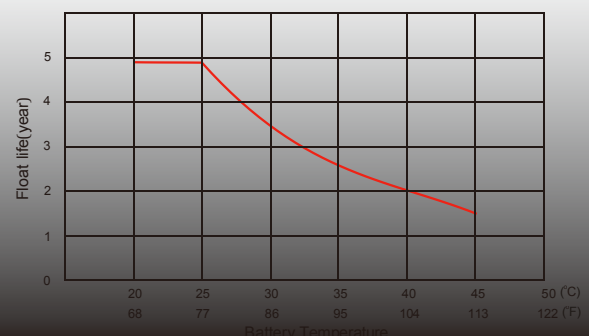
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Float Service Life



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