

KS12-120AH(12V120Ah/10HR)

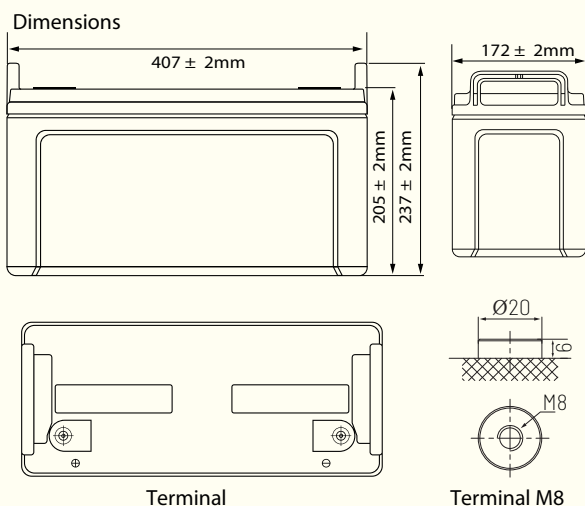
KENSON[®]
Source of energy

VALVE REGULATED LEAD-ACID BATTERY



Color : ●

Dimensions



- ABS container;
- Absorbent glass mat technology (AGM).

Applications

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

General Features

- 10 years design life (25°C)
- Lead calcium alloy, sealed design, no watering required
- Puncture resistant micro-porous glass mat separators extend life
- Unique technology optimizes power capacity, cell consistency, and long-term reliability
- Designed for a wide range of applications

Standards

- Compliance with IEC 60896 standards EU Battery Directive
- Manufactured by ISO & CE certified Company

Specifications

Nominal Voltage		12V
Capacity (25°C)	10HR (10.80V)	120Ah
	5HR (10.50V)	105Ah
	1HR (9.60V)	74.4Ah
Dimension	Length	407±2mm
	Width	172±2mm
	Height	205±2mm
	Total Height	237±2mm
Approx. Weight		34.50Kg±5%
Terminal type		M8
Internal resistance (Fully charged, 25°C)		Approx. 4 mΩ
Capacity affected by temperature (20HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3 Month	Remaining Capacity: 91%
	6 Month	Remaining Capacity: 82%
	12 Month	Remaining Capacity: 65%
Nominal operating temperature		25°C±3°C (77°F±5°F)
Operating temperature range	Discharge	-15°C ~ 50°C (5°F ~ 122°F)
	Charge	-10°C ~ 50°C (14°F ~ 122°F)
	Storage	-20°C ~ 50°C (-4°F ~ 122°F)
Float charging voltage (25°C)		13.50 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage (25°C)		14.10 to 14.40V Temperature compensation: -30mV/°C
Standard / Maximum charging current		12A / 36A
Terminal material		Copper
Maximum discharge current		960A (5 sec.)
Designed floating life (25°C)		10 Years

VALVE REGULATED LEAD-ACID BATTERY

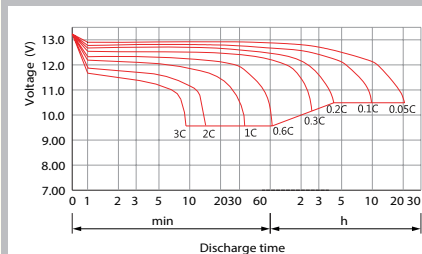
Discharge Table

Constant Current Discharge (Amperes) 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	234.7	166.9	150.8	118.6	106.1	77.5	65.7	47.6	40.0	29.4	23.0	20.0	17.6	13.6	11.2	5.96
1.80V/cell	266.9	189.4	170.9	134.1	115.5	82.1	68.1	49.2	41.3	31.9	24.6	21.0	18.9	14.3	12.0	6.17
1.75V/cell	289.9	205.4	185.1	144.8	117.8	85.1	71.4	51.8	43.5	32.5	25.1	21.4	19.1	14.3	12.1	6.24
1.70V/cell	309.9	219.0	196.5	153.5	120.2	86.8	72.8	52.8	44.4	33.1	25.5	21.8	19.2	14.6	12.2	6.30
1.67V/cell	320.8	226.0	202.3	157.7	122.0	88.1	73.9	53.6	45.0	33.4	25.9	22.2	19.3	14.8	12.3	6.38
1.60V/cell	332.1	233.7	208.6	161.8	123.7	89.3	75.0	54.3	45.7	33.7	26.2	22.5	19.4	14.9	12.4	6.45

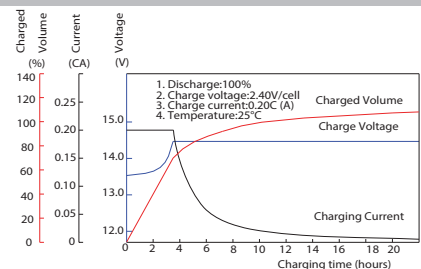
Constant Power Discharge (Watts/cell) at 25°C (77°F)																
F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	438.3	313.9	285.6	225.6	202.7	149.0	127.1	92.4	77.9	57.4	45.2	39.4	34.8	26.9	22.3	11.9
1.80V/cell	490.3	351.2	319.5	252.4	218.9	156.8	130.9	95.0	80.0	62.0	48.1	41.2	37.2	28.2	23.4	12.3
1.75V/cell	523.3	374.8	341.0	269.4	221.7	161.5	136.7	99.4	83.9	63.0	48.8	41.8	37.4	28.3	23.6	12.4
1.70V/cell	550.1	394.0	358.5	283.2	224.2	163.6	138.7	101.0	85.2	64.0	49.5	42.4	37.5	28.7	23.8	12.5
1.67V/cell	559.1	400.4	364.3	287.8	225.8	165.1	140.0	101.9	86.1	64.3	50.1	43.1	37.6	29.0	24.0	12.6
1.60V/cell	566.9	406.0	369.4	291.8	226.8	165.9	141.0	102.7	86.8	64.6	50.4	43.5	37.7	29.3	24.3	12.8

Note: The above characteristics data can be obtained within three charge/discharge cycles.

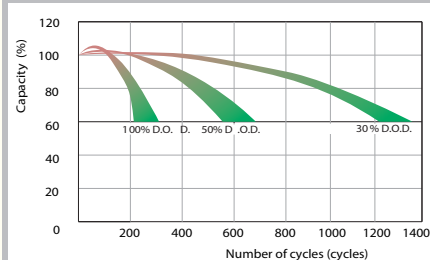
Discharge Characteristics (25°C)



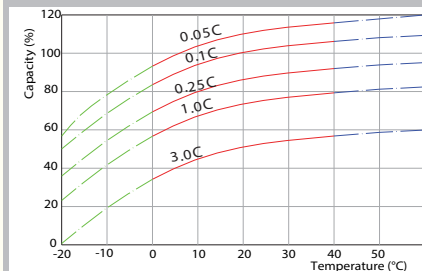
Charging Characteristics (25°C)



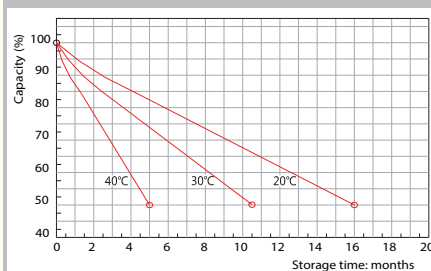
Cycle Life on D.O.D (25°C)



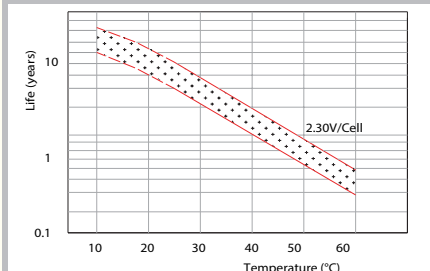
Effect of Temperature on Capacity



Self-discharge Characteristics



Floating Life on Temperature



This specification provided by Lab report might differ from the practically tests.

