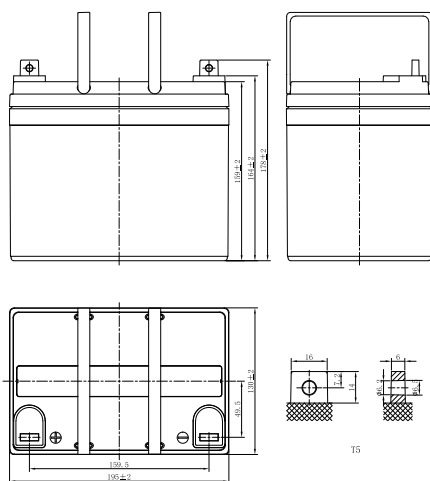


# KB12350-M6 12V 35Ah



## CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	$C_{20}, 1.75V/cell$	35Ah
Dimension	Length	195mm (7.68inches)
	Width	130mm (5.12inches)
	Container Height	164mm (6.46inches)
	Total Height	178mm (7.01inches)
Approx Weight	10.7kg (23.6lbs)	
Terminal	T5	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	875A	
Internal Resistance (25°C)	Approx 10 mΩ (Fully charged)	
Operating Temp. Range	Discharge	-15~50°C (5~122°F)
	Charge	-20~40°C (-4~104°F)
	Storage	-15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max. Charging Current (25°C)	0.3C	
Charge voltage (25°C)	Standby Use	Cycle Use
	2.25-2.30V/cell	2.35-2.45V/cell
Temp. Coefficient	-3mV/cell/°C	
	-5mV/cell/°C	
Effect of temp. to Capacity	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤3% per month at 25°C (77°F). KB series batteries may be stored 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.	

## 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	114.4	78.5	60.4	48.8	36.0	26.3	21.5	15.7	12.3	8.74	6.89	5.86	5.02	3.96	3.23	1.71
1.80V/cell	123.1	83.2	63.4	50.8	37.1	27.0	22.1	16.0	12.5	8.89	6.99	5.95	5.10	4.01	3.28	1.73
1.75V/cell	129.7	86.5	65.5	52.2	38.0	27.6	22.5	16.3	12.7	9.03	7.08	6.02	5.16	4.06	3.31	1.75
1.70V/cell	135.8	90.0	67.7	53.7	39.0	28.2	22.9	16.6	12.9	9.16	7.18	6.11	5.22	4.10	3.34	1.76
1.67V/cell	140.5	92.5	69.3	54.8	39.7	28.6	23.3	16.8	13.0	9.25	7.25	6.16	5.27	4.13	3.37	1.78
1.60V/cell	149.0	96.4	71.7	56.5	40.8	29.4	23.8	17.2	13.3	9.42	7.38	6.26	5.34	4.19	3.41	1.80
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	216.5	149.3	115.6	94.1	69.5	51.0	41.9	30.6	24.0	17.2	13.6	11.6	9.93	7.84	6.43	3.42
1.80V/cell	230.6	157.2	120.6	97.3	71.3	52.2	42.8	31.2	24.4	17.4	13.7	11.7	10.1	7.95	6.51	3.46
1.75V/cell	240.3	162.3	123.8	99.5	72.9	53.1	43.5	31.6	24.8	17.7	13.9	11.9	10.2	8.03	6.57	3.50
1.70V/cell	249.2	167.7	127.2	101.8	74.4	54.1	44.1	32.1	25.1	17.9	14.1	12.0	10.3	8.10	6.63	3.53
1.67V/cell	255.7	171.4	130.0	103.7	75.5	54.8	44.7	32.4	25.3	18.0	14.2	12.1	10.4	8.16	6.68	3.56
1.60V/cell	266.0	176.4	133.5	106.3	77.2	55.8	45.5	33.0	25.7	18.3	14.4	12.3	10.5	8.27	6.75	3.59

## APPLICATIONS

- 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

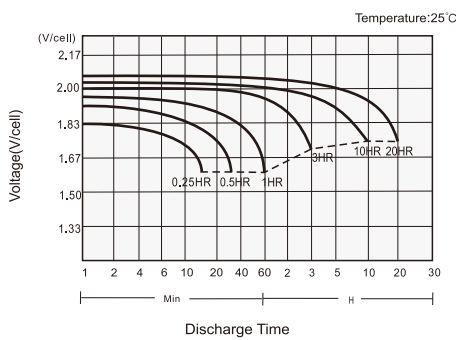
## GENERAL FEATURES

- 5 years design life (25°C)
- 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

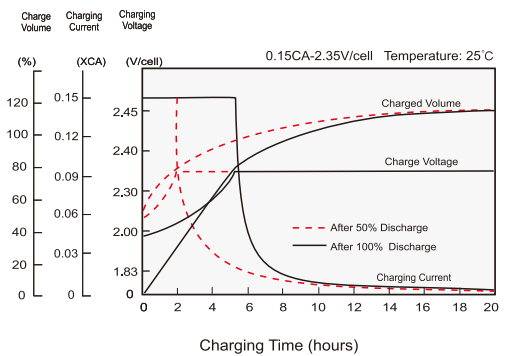
## STANDARDS

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Approved
- Manufactured under ISO 45001, ISO 9001, and ISO 14001 standards.

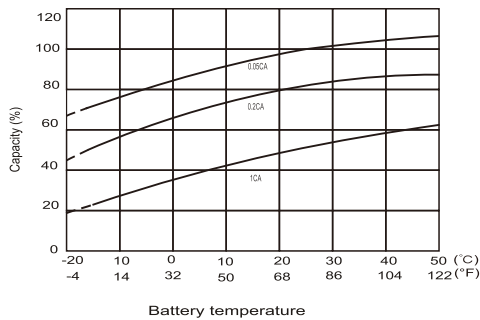
### Discharge Characteristics



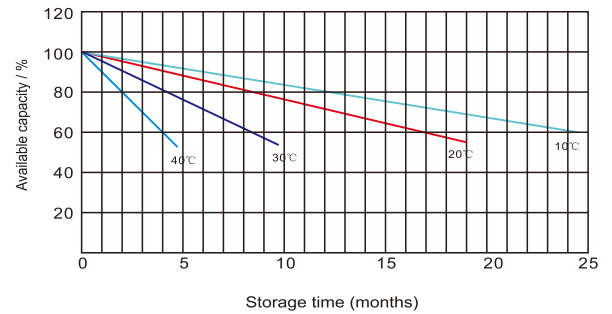
### Charging Characteristics



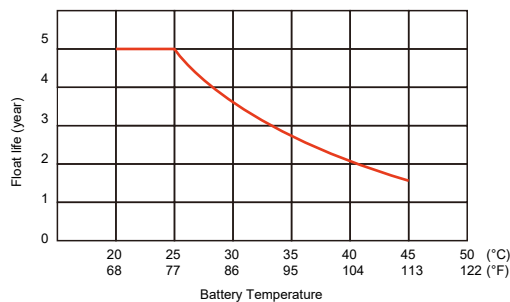
### Effects of Temperature on Capacity



### Self Discharge Characteristics



### Float service life



### Cycle Service Life in relation to the Depth of discharge

