AGM Battery (YD Series)
YD 12-150 (12V 150Ah)

Specifications

Rated Voltage		12V
Nominal Capacity(10HR)	150.0Ah	(C_{10},1.80V/cell)
Dimension	Length Width Container Height Total Height	483±3mm (19.0 inches) 170±2mm (6.69 inches) 238.5±3mm (9.39 inches) 238.5±3mm (9.39 inches)
Approx Weight		43.2 kg (95.3lbs)
Terminal		T11 (M8)
Container Material		ABS
Rated Capacity (25ºC)	157.6 Ah 150.0 Ah 136.5Ah 124.2 Ah 95.6 Ah	(20hr,7.88A,1.80V/cell) (10hr,15.0A,1.80V/cell) (5hr,27.3A,1.75V/cell) (3hr,41.4A,1.75V/cell) (1hr,95.6A,1.60V/cell)
Max. Discharge Current		1500A (5s)
Internal Resistance (25ºC)		Approx 3.5mΩ
Operating Temp. Range	Discharge Charge Storage	-15～50ºC (5～122ºF) 0～40ºC (-4～104ºF) -15～40ºC (5～104ºF)
Nominal Operating Temp. Range		25±3ºC (77±5ºF)
Cycle Use	Initial Charging Current less than 30.0A Voltage 14.4V~14.7V at 25ºC (77ºF)Temp. Coefficient -30mV/ºC	
Standby Use	Initial Charging Current less than 30.0A Voltage 13.5V~13.8V at 25ºC (77ºF)Temp. Coefficient -20mV/ºC	
Effect of temp. to Capacity	40ºC (104ºF) 25ºC (77ºF) 0ºC (32ºF)	103% 100% 86%
Self Discharge	YD series batteries may be stored for up to 6 months at 25ºC(77ºF) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

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

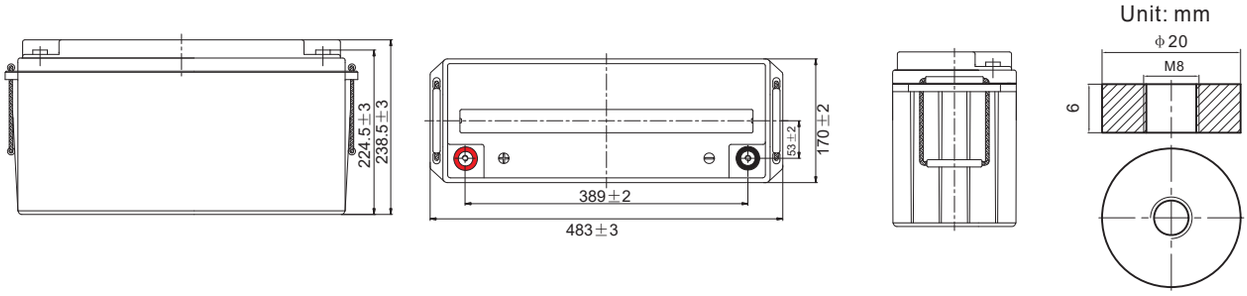
IATF 16949 ISO 9001

ISO 14001 ISO 45001 ISO 10002

General Features

- 10 years float life (25ºC)
- 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

Layout



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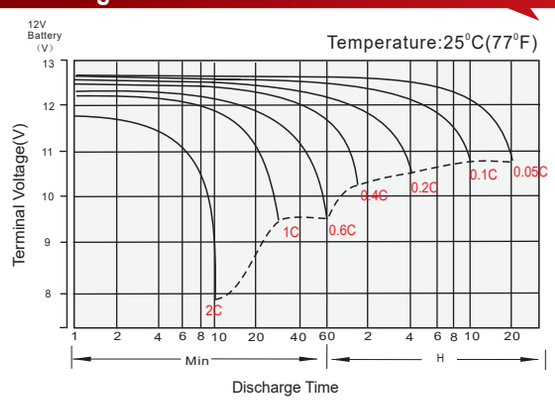
Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	305.9	217.5	192.4	151.3	135.3	98.9	83.8	60.7	51.1	37.5	29.4	25.5	22.5	17.3	14.3	7.60
1.80V/cell	347.8	246.9	218.0	171.1	147.3	104.8	86.8	62.8	52.7	40.7	31.4	26.8	24.2	18.2	15.0	7.88
1.75V/cell	377.8	267.7	236.0	184.7	150.3	108.6	91.1	66.0	55.5	41.4	32.0	27.3	24.3	18.3	15.2	7.95
1.70V/cell	403.9	285.4	250.7	195.8	153.3	110.8	92.9	67.3	56.6	42.2	32.5	27.8	24.5	18.6	15.3	8.03
1.67V/cell	418.0	294.5	258.0	201.2	155.6	112.4	94.3	68.3	57.4	42.6	33.0	28.3	24.6	18.8	15.5	8.13
1.60V/cell	432.8	304.5	266.0	206.3	157.8	114.0	95.6	69.3	58.3	43.0	33.4	28.7	24.8	19.1	15.7	8.23

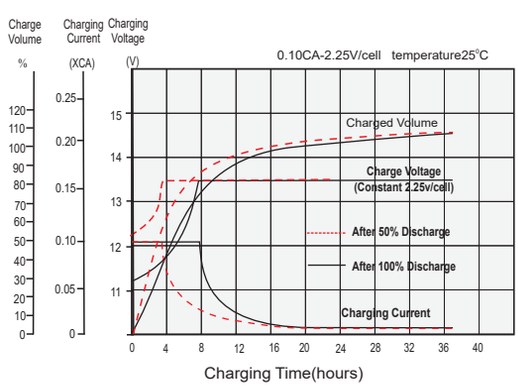
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	559.6	400.8	364.3	287.8	258.5	190.2	162.1	117.8	99.3	73.2	57.6	50.2	44.4	34.3	28.5	15.1
1.80V/cell	625.9	448.3	407.5	321.9	279.2	200.2	167.0	121.2	102.1	79.1	61.3	52.6	47.5	36.0	29.8	15.7
1.75V/cell	668.0	478.5	434.9	343.6	282.8	206.2	174.4	126.8	107.0	80.4	62.2	53.4	47.8	36.1	30.1	15.8
1.70V/cell	702.3	503.0	457.2	361.2	286.0	208.9	177.0	128.8	108.7	81.6	63.1	54.1	47.9	36.6	30.3	15.9
1.67V/cell	713.7	511.2	464.7	367.1	288.0	210.8	178.6	130.0	109.8	82.1	63.8	55.0	48.0	37.0	30.7	16.1
1.60V/cell	723.7	518.4	471.2	372.2	289.3	211.8	179.9	131.0	110.7	82.4	64.3	55.5	48.2	37.4	31.0	16.3

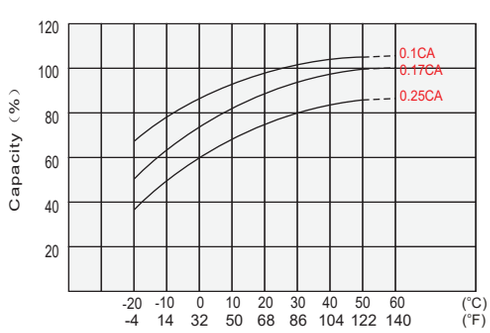
Discharge Characteristics



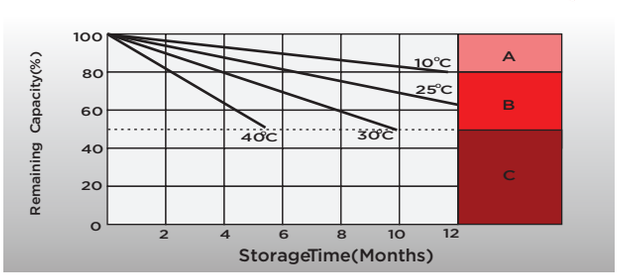
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Self Discharge Characteristics



A — No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)

B — Supplementary charge required before use. Optional charging way as below:
1. Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.
2. Charged for above 20 hours at limted current 0.25CA and constant volatge 2.45V/cell.
3. Charged for 8-10 hours at limted current 0.05CA

C — Supplementary charge may often fail to recover the capacity
The battery should never be left standing till this is reached.

Organize Sanayi Bölgesi Türkmenistan Cad. No:27 Sincan/Ankara
+90 312 267 02 80 Faks: +90 312 267 08 61
endustriyel@yigitaku.com
www.yigitaku.com