YİĞİTAKÜ
Moving Forward

12V 55AH AGM Battery

- High performance, completely maintenance-free, low self-discharge
- 100% precise quality testing, stable quality and high reliable performance
- Unique grid alloy formula and updated manufacturing technique
- Floating & standby use:up to 8 years
- Cycle use 1: Up to 260 cycles at 100% DOD
- Cycle use 2: Up to 500 cycles at 50% DOD

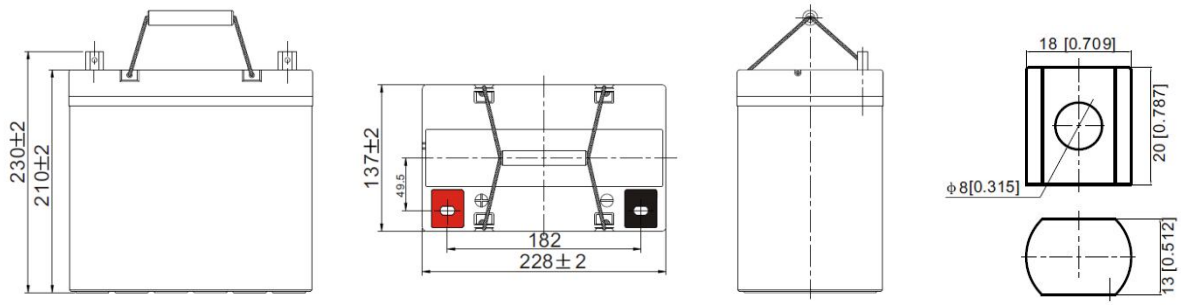
Application:

*Telecommunications
*Uninterruptable Power Supply
*Electric Power System (EPS)
*Emergency backup power supply
*Alarm and security system
*Communication power supply
*DC power supply
*Auto control system

Construction:

Component .....Raw material
Positive .....Lead dioxide
Negative .....Lead
Container .....ABS
Cover .....ABS

Sealant .....Epoxy
Safety Valve .....Rubber
Terminal .....Copper
Separator .....Fiber glass
Electrolyte .....Sulfuric acid



Battery Model	YD 12-55			
Designed Floating Life	Up to 8 years @20-25˚C ambient temperature			
Capacity (25˚C)	20 HR (2.94A, 10.8V)	10 HR (5.5A, 10.8V)	5 HR (9.58A, 10.5V)	1 HR (34.1A, 9.6V)
	58.8 Ah	55 AH	47.9 AH	34.1 AH
Dimensions	Lenght	Width	Height	Total Height
	228 mm	137 mm	210 mm	230 mm
Approx Weight	17.7 kg ± %3			
Internal Resistance	Full charged @25˚C, equal or less than 7.5 mOhm			
Self Discharge	%2 capacity declined per month @25˚C			
Capacity Affected By Temperature (20 HR)	40˚C	25˚C	0˚C	-15˚C
	%103	%100	%86	%65
Charge Voltage (25˚C)	Cycle Use		Float Use	
	14.4-15.0V (-30 m V/˚C), max. Current:21.0 A		13.50 - 13.80 V (-20 m V/˚C)	

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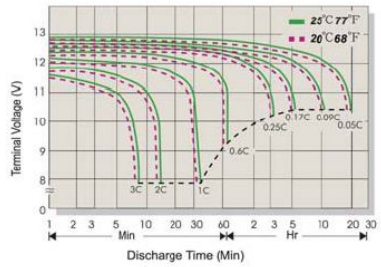
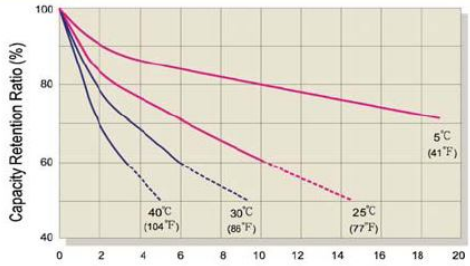
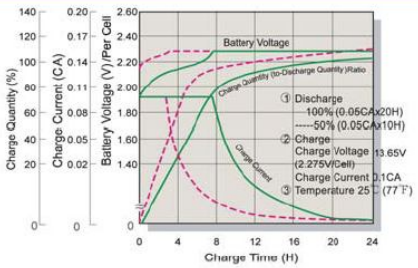
Terminal Voltage (V) and Discharge Time



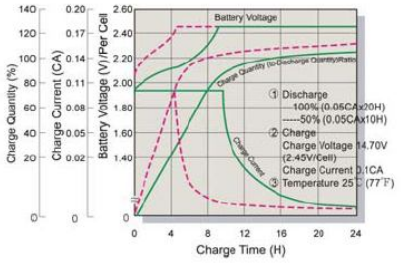
Capacity Retention Characteristic



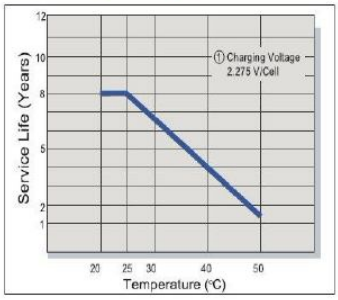
Battery Vlotage and Charge Time for Standby Use



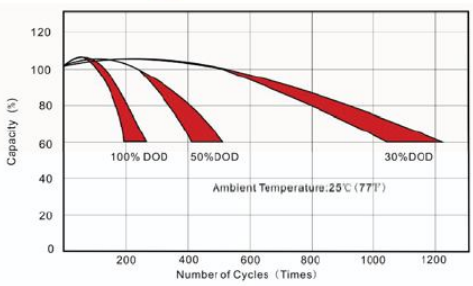
Battery Vlotage and Charge Time for Cycle Use



Tickle(or Float) Service Life



Cycle Service Life



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

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	64.4	54.1	48.0	39.8	30.7	26.3	17.0	12.8	10.5	8.82	7.73	6.20	5.33	2.84
1.80V/cell	73.6	60.8	53.1	43.3	33.1	27.8	18.3	13.8	11.1	9.35	8.19	6.52	5.50	2.94
1.75V/cell	83.6	68.5	58.7	47.0	36.2	30.3	19.0	14.3	11.5	9.57	8.44	6.74	5.65	3.02
1.70V/cell	94.5	76.0	64.8	51.3	38.9	32.0	20.0	15.1	12.0	10.1	8.85	7.03	5.86	3.09
1.65V/cell	101.4	81.4	68.9	54.1	41.2	33.1	20.8	15.7	12.5	10.4	9.16	7.26	6.03	3.19
1.60V/cell	111.6	89.1	74.8	57.8	42.8	34.1	21.3	16.1	12.8	10.7	9.35	7.39	6.16	3.24

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

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	120.2	102.1	91.5	76.7	59.7	51.2	33.4	25.2	20.7	17.5	15.3	12.4	10.7	5.69
1.80V/cell	135.9	113.1	99.7	82.0	63.9	53.8	35.7	26.9	21.9	18.4	16.2	13.0	11.0	5.88
1.75V/cell	151.9	125.9	109.1	88.4	69.0	58.4	37.0	27.9	22.6	18.8	16.7	13.4	11.3	6.02
1.70V/cell	167.7	137.8	119.5	96.0	74.1	61.6	38.8	29.3	23.5	19.9	17.4	13.9	11.7	6.17
1.65V/cell	178.5	146.4	126.2	100.5	77.7	63.2	40.0	30.4	24.4	20.4	18.0	14.4	12.0	6.35
1.60V/cell	191.9	157.7	135.6	106.5	80.3	64.8	40.9	31.0	24.8	20.8	18.3	14.6	12.2	6.45

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