

UP-AGM SERIES

UP-HR150-12



HIGH RATE AGM



GENERAL FEATURES

- Optimized plate achieve low IR
- 30% increased power output at 15 min
- Deep Discharge Recovery
- High Power Density
- Wide operating temperature

TECHNICAL SPECIFICATIONS

Nominal Voltage		12V(6 cells per unit)
Design Floating Life @25°C		12 Years
Watts/cell@25°C(@15min,10.02V)		520W
Capacity @25°C	10 hour rate (15.0A,10.8V)	150Ah
	3 hour rate (43.7A,10.5V)	131.1Ah
	1 hour rate (113.9A,9.6V)	113.9Ah
Internal Resistance	Full Charged Battery@25°C	≤3.7mΩ
Ambient Temperature	Discharge	-20°C~50°C
	Charge	-20°C~50°C
	Storage	-20°C~50°C
Max.Discharge Current@25°C		2250A(5s)
Capacity affected by Temperature (10 hr Capacity)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-Discharge@25°C per Month		3%
Charge (Constant Voltage) @25°C	Standby Use	Initial Charging Current Less than 37.5A Voltage 13.6-13.8V
	Cycle Use	Initial Charging Current Less than 37.5A Voltage 14.4-14.9V

APPLICATIONS

- UPS & EPS
- Emergency lighting Systems
- Medical Equipment
- The office computer
- Cable TV Systems
- Alarm Systems

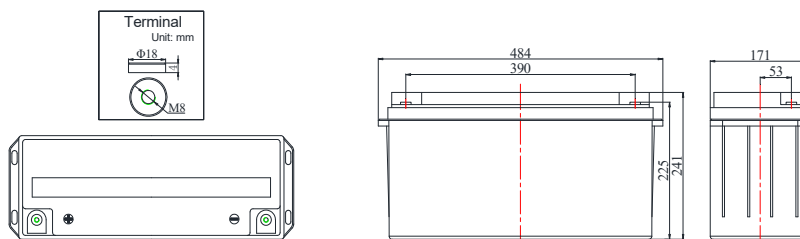
COMPLIED STANDARDS

IEC 60896-21/22	JIS C8704
YD/T799	BS6290 part4
GB/T 19638	UL 1989



DIMENSIONS & WEIGHT

Length (mm)	484±1
Width (mm)	171±1
Height (mm)	241±1
Total Height (mm)	241±1
Weight (kg)	47±3%



BATTERY CONSTRUCTION

Component	Positive plate	Negative plate	Container & Cover	Safety valve	Terminal	Separator	Electrolyte	Pillar seal
Features	Thick high Sn low Ca grid with special paste	Balanced Pb-Ca grid for improved recombination efficiency	ABS (UL94-V0 optional)	Flame Si-Rubbeand aging resistancer	Female Copper Insert M8(torque: 7~9N.m	Advanced AGM separator for high pressure cell design	Dilute high purity sulphuric acid	Two layers epoxy resin seal

DISCHARGE CONSTANT POWER PER CELL (WATTS AT 25°C)

F.V/Time	5min	10min	15min	20min	25min	30min	45min	60min	90min	120min	180min	600min
1.60V	888.9	686.3	529.0	438.3	372.7	332.1	250.3	204.9	145.1	113.8	78.3	29.5
1.67V	872.6	673.9	520.0	432.8	365.6	325.9	245.6	201.0	142.5	111.7	77.7	29.1
1.70V	856.6	661.4	510.1	424.9	358.9	319.9	241.1	197.1	139.5	109.4	77.3	28.8
1.75V	840.2	649.0	500.4	411.4	352.3	314.1	236.6	193.7	136.9	108.1	76.6	28.3
1.80V	821.9	635.3	486.2	395.6	343.3	303.5	227.6	184.7	132.8	106.6	75.6	28.0

DISCHARGE CONSTANT CURRENT PER CELL (AMPERES AT 25°C)

F.V/Time	5min	10min	15min	20min	25min	30min	45min	60min	90min	120min	180min	600min
1.60V	543.9	419.2	321.9	267.3	232.6	196.9	145.8	113.9	82.2	65.5	46.1	16.3
1.67V	533.9	411.6	316.0	264.0	228.4	193.1	143.1	112.8	80.8	64.4	45.4	15.9
1.70V	524.1	403.8	310.3	259.2	224.2	189.6	140.5	111.1	79.1	63.0	44.4	15.8
1.75V	514.1	396.2	304.4	250.9	219.9	186.0	137.9	109.4	77.6	61.9	43.7	15.4
1.80V	507.9	389.9	298.5	243.9	211.5	182.4	136.4	107.4	75.5	60.2	42.4	15.0

Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact with Master Battery for the latest information.



PERFORMANCE CHARACTERISTICS

