



ASTERION HR are sealed maintenance-free lead-acid batteries with gas recombination system (VRLA). Are manufactured by AGM technology (electrolyte absorbed in glass fiber separators). Thanks to this technology the batteries do not require the distillate refilling throughout the entire service life. HR refers to a range of ASTERION UPS series, specifically designed for use in UPS Data Centers, communication systems and other equipment.

Battery construction

Element	Positive plate	Negative plate	Case Lid	Valve	Terminal	Separator	Electrolyte
Material	Lead dioxide	Lead	ABS	Rubber	Copper	Fiberglass	Acid

Performance & characteristics:

- AGM technology allows to recombine 99% of the generated gas;
- No restrictions on air transportation;
- Compliance with the UL requirements;
- Lead plates, alloyed by calcium, provide high energy density;
- Maintenance-free. Do not require distillate topping;
- Long service life;
- The battery case is made of flame-retardant ABS plastic.

Application:

- Uninterruptable power supply
- Back up power supply
- Medical devices
- Renewable energy systems
- Portable devices
- Professional equipment

Specifications

Nominal voltage, V	12
Nominal capacity, Ah	9
Design life, years	8
Technology	AGM
Length, mm	151
Width, mm	65
Height, mm	94
Height without terminals, mm	94
Weight, kg	2,78 (±3%)
Height max, mm	100

Operating temperature range

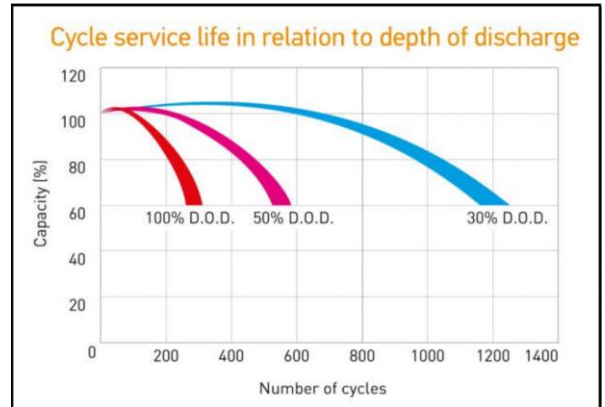
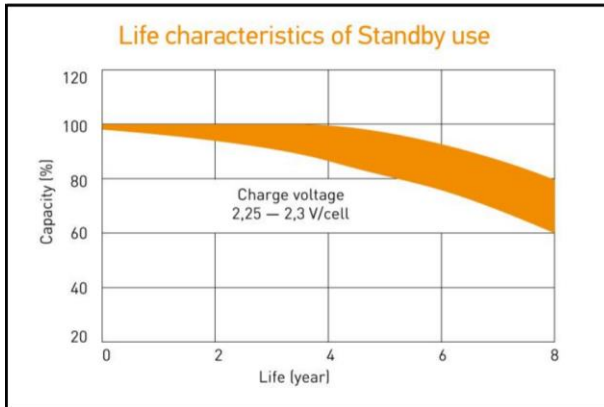
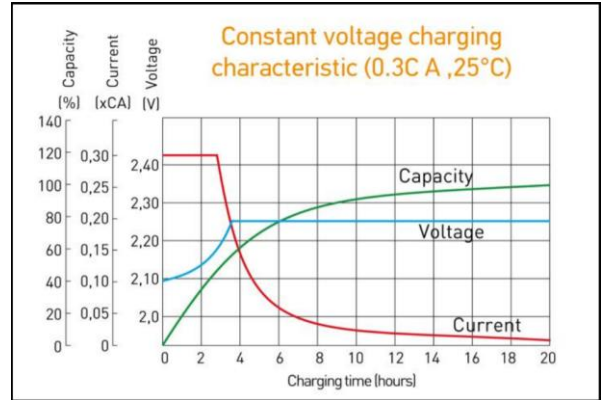
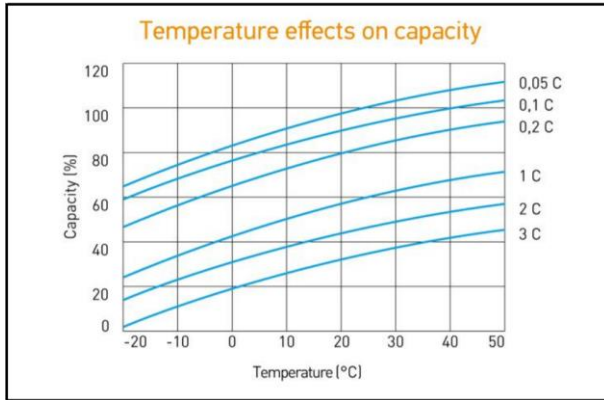
Discharge	-20÷60
Charge	-10÷60
Storage	-20÷60
Cycle mode (2,35±2,4 V/cell):	
Maximum discharge current	135 A
Temperature correction factor	30 mV/°C
Standby mode (2,25±2,3 V/cell):	
Temperature correction factor	20 mV/°C

Discharge Constant Current, A (25°C)

V/cell	5 min	10 min	15 min	30 min	1 h	3 h	5 h	10 h	20 h
1.60V	36,1	25,2	19,3	11,6	6,66	2,59	1,62	0,88	0,47
1.65V	34,6	24,3	18,5	11,1	6,42	2,53	1,61	0,87	0,47
1.70V	33,1	23,3	17,7	10,5	6,18	2,46	1,59	0,87	0,46
1.75V	31,6	22,2	16,9	9,86	5,94	2,39	1,57	0,86	0,45
1.80V	30,0	21,2	16,1	9,21	5,68	2,32	1,55	0,85	0,44

Discharge Constant Power, W/cell (25°C)

V/cell	5 min	10 min	15 min	30 min	1 h	3 h	5 h	10 h	20 h
1.60V	74,1	47,2	35,1	22,0	12,4	4,84	3,27	1,73	0,87
1.65V	70,5	45,6	34,0	20,8	12,0	4,79	3,24	1,71	0,87
1.70V	66,9	43,9	32,9	20,0	11,5	4,74	3,21	1,71	0,86
1.75V	63,3	42,2	31,8	19,2	11,0	4,69	3,18	1,69	0,85
1.80V	59,7	40,5	30,7	18,4	10,5	4,64	3,15	1,68	0,85



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