

ASTERION HRL-X 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 the use of modern technologies in production, batteries demonstrate high operation stability and highest quality. HR refers to a range of ASTERION UPS series, specifically designed for use in UPS Data Centers, communication systems and other equipment. The series is highly reliable and has a service-life up to 12 years.



Battery construction

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

Specifications

Nominal voltage.....	12 V
Cell.....	6
Design life.....	10-12 years
Nominal capacity (25°C)	
10 hours rate (9 A; 1,8 V/cell).....	90 Ah
5 hours rate (15,9 A; 1,75 V/cell).....	79,5 Ah
1 hours rate (64,9 A; 1,65 V/cell).....	64,9 Ah
Self-discharge.....	3% capacity per month 20°C
Internal resistance (25°C).....	4,2 mΩ

Operating temperature range

Discharge.....	-20+60°C
Charge.....	-10+60°C
Storage.....	-20+60°C
Maximum discharge current (25°C).....	800A (5sec)
Cycle mode (2,35÷2,4 V/cell)	
Max.charge current.....	27 A
Temperature correction factor.....	30 mV/°C
Standby mode (2,27÷2,3 V/cell)	
Temperature correction factor.....	20 mV/°C

Application

- Uninterruptable power supply
- Back up power supply
- Communication system
- Power engineering facilities
- Renewable energy systems

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.

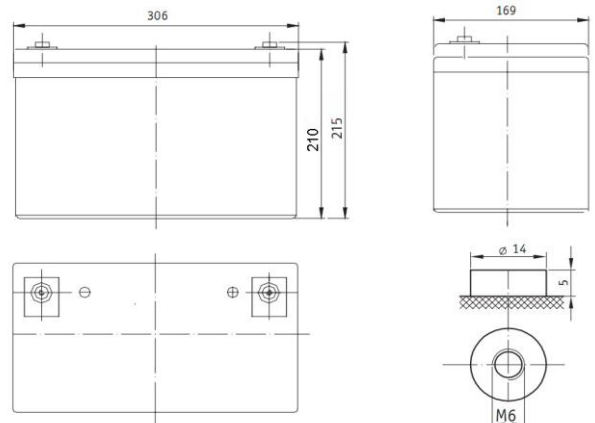
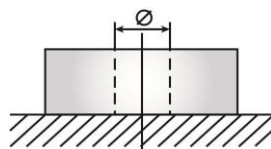
Dimensions (±2mm)

Length, mm.....	306
Width, mm.....	169
Height, mm.....	210
Height over terminals, mm.....	215
Weight (±3%), kg.....	27,8

Layout B



Terminal type Insert Ø6 mm

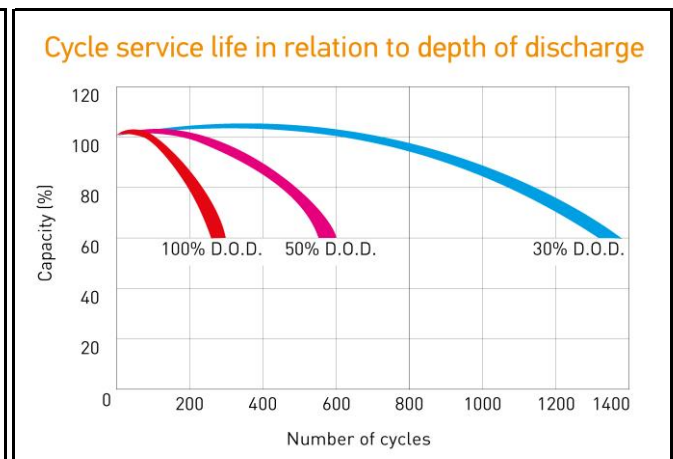
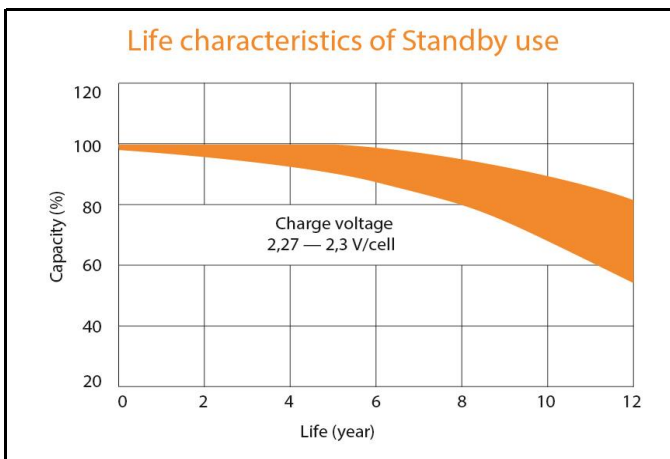
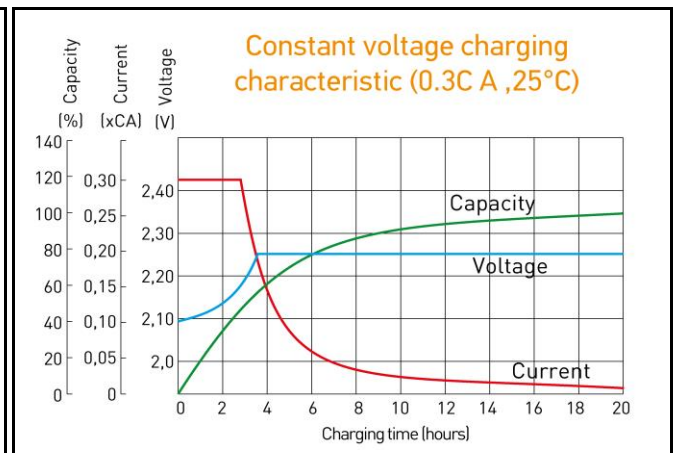
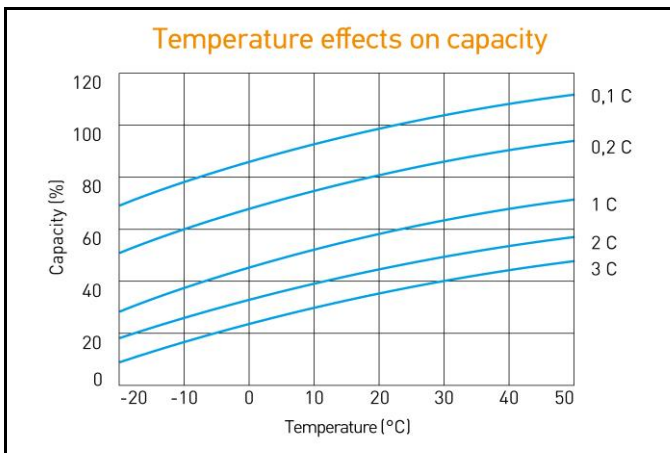


Discharge Constant Current, A (25°C)

V/cell	5 min	10 min	15 min	30 min	45 min	1 h	3 h	5 h	10 h
1,60	300	235	192	118	87,5	68,0	27,3	18,1	10,1
1,65	280	223	182	112	83,3	64,9	26,1	17,4	9,77
1,70	266	210	172	106	79,0	61,7	25,0	16,6	9,41
1,75	249	197	162	100	74,7	58,6	23,9	15,9	9,09
1,80	238	190	156	97,4	73,0	57,3	23,4	15,7	9,00

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

V/cell	5 min	10 min	15 min	30 min	45 min	1 h	3 h	5 h	10 h
1,60	507	420	333	210	154	121	50,8	34,0	18,4
1,65	491	404	321	204	150	118	49,6	33,3	18,3
1,70	485	389	309	197	145	115	48,5	32,7	18,1
1,75	444	373	298	190	141	111	47,4	32,0	17,9
1,80	430	357	286	183	136	108	46,2	31,3	17,6



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