

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 (5,5 A; 1,8 V/cell).....55 Ah
 5 hours rate (9,23 A; 1,75 V/cell).....46,15 Ah
 1 hours rate (34,2 A; 1,65 V/cell).....34,2 Ah
 Self-discharge.....3% capacity per month 20°C
 Internal resistance (25°C).....6 mΩ

Operating temperature range

Discharge.....-20+60°C
 Charge.....-10+60°C
 Storage.....-20+60°C
 Maximum discharge current (25°C).....550A (5sec)
 Cycle mode (2,35÷2,4 V/cell)
 Max.charge current.....16,5 A
 Temperature correction factor.....30 mV/°C
 Standby mode (2,27÷2,3 V/cell)
 Temperature correction factor.....20 mV/°C

Application

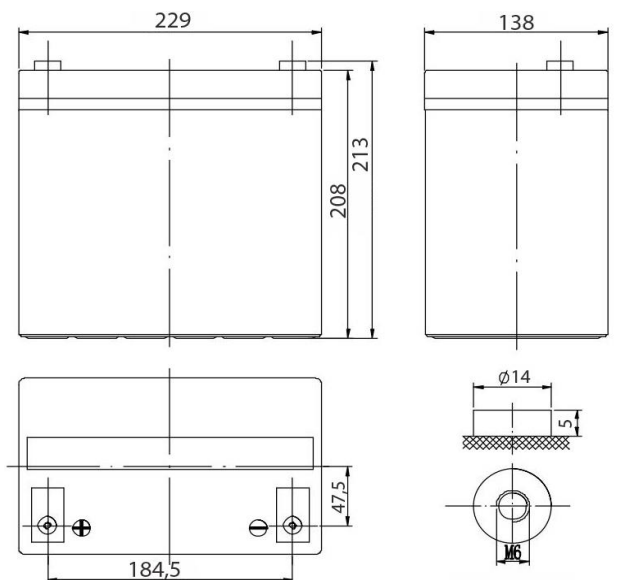
- Uninterruptable power supply
- Back up power supply
- Communication system
- Power engineering facilities
- Renewable energy systems

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)

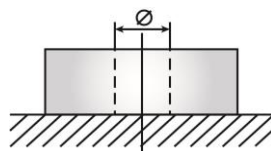
Length, mm.....229
 Width, mm.....138
 Height, mm.....208
 Height over terminals, mm.....213
 Weight (±3%), kg.....18,2



Layout B



Terminal type
Insert Ø6 mm

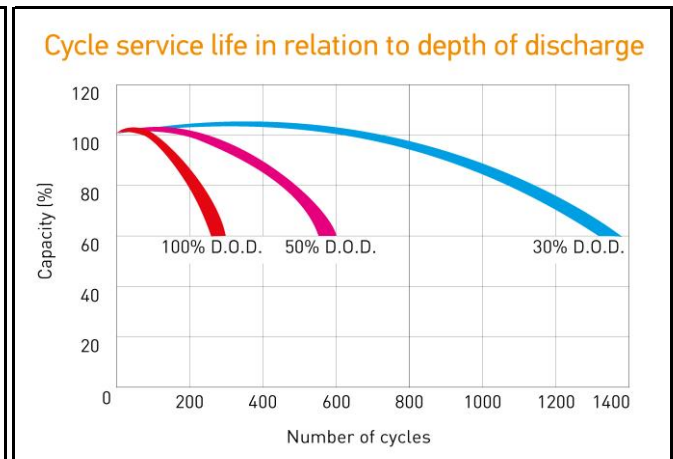
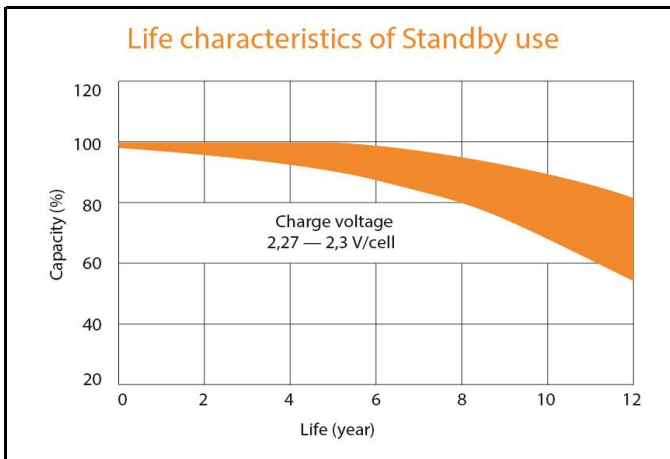
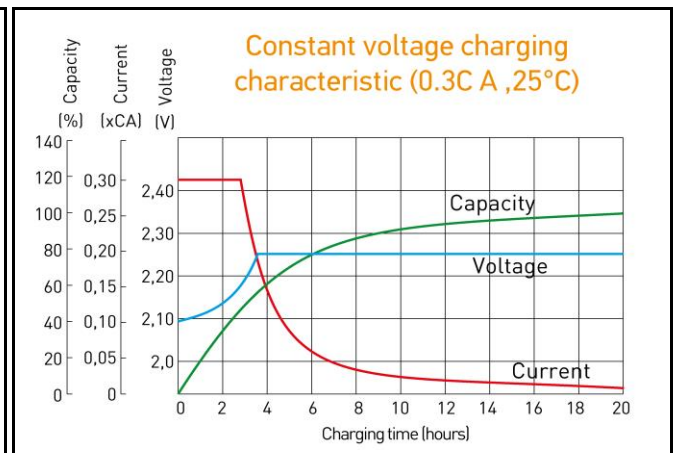
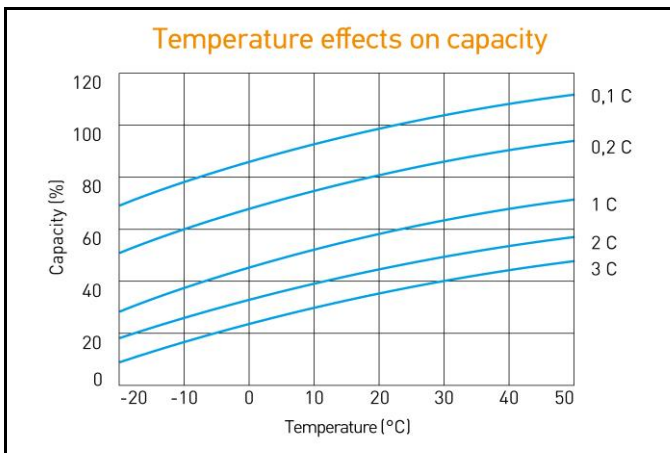


Discharge Constant Current, A (25°C)

V/cell	5 min	10 min	15 min	30 min	45 min	1 h	3 h	5 h	10 h
1,60	175	129	99,4	59,2	43,1	35,1	14,6	9,82	5,65
1,65	165	124	95,4	57,4	41,9	34,2	14,2	9,57	5,62
1,70	155	115	90,6	55,6	40,7	33,3	13,9	9,40	5,58
1,75	145	106	85,8	53,8	39,6	32,5	13,6	9,23	5,54
1,80	134	99,8	79,5	51,9	38,4	31,7	13,3	9,06	5,50

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	318	229	182	111	85,3	68,9	29,1	18,8	10,9
1,65	300	225	177	109	84,0	67,3	28,5	18,6	10,8
1,70	281	213	169	107	82,3	65,8	27,9	18,2	10,6
1,75	261	200	162	105	80,5	64,3	27,3	18,0	10,4
1,80	248	186	154	104	78,4	64,0	26,7	17,9	10,2



ALL DATA IS SUBJECT TO CHANGE WITHOUT NOTICE