

ASTERION series **HRL-W** are highly reliable and energy efficient lead-acid batteries for modern uninterruptible power supply systems. They are sealed, maintenance-free with a gas recombination system (VRLA). They are manufactured using AGM technology (Absorbent Glass Mat - an electrolyte absorbed in a fiberglass separator). Due to the optimized technology, the electrical and electrochemical parameters of this series have been corrected and the batteries have excellent discharge characteristics at short time intervals.

The **HRL-W** series is part of the Xpert family designed specifically for use in uninterruptible power supplies to data centers, communication systems, and other equipment.

Scopes of application:

- Sources of backup power supply;
- Uninterruptible power supplies
- Energy facilities;
- Communication facilities;
- Data centers.



Inert Gas Casting



Multicomponent inhibitors



Automated welding



Thermodynamic pressing



Electrolytic agents



Bulk application of active mass



Advanced assembly technology

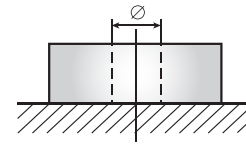


SERVICE LIFE:
 In buffer mode: 12 years.
 In cyclic mode: 1,300 cycles at 30% depth of discharge.

CHARGING METHOD:
 DC voltage charge (25°C)
 Cyclic mode: 2,35-2,4 V/cell
 Temperature compensation - 5 mV/cell°C
 Buffer mode: 2,27-2,3 V/cell
 Temperature compensation - 3,3 mV/cell°C

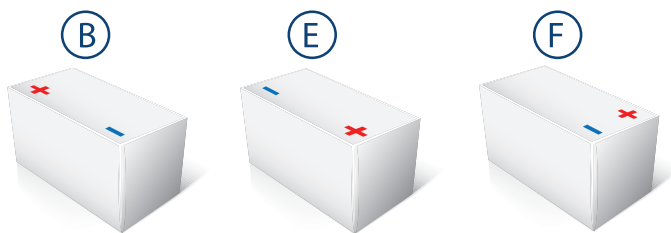
SELF-DISCHARGE:
 Less than 3% per month

Terminal diagrams



For bolt

HOUSING TYPES



DESIGN

Component	Positive plate	Negative plate	Container	Cover	Valve	Terminals	Separator	Electrolyte
Material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

STANDARD SIZES

Type	Urated, V	Capacitance, Ah*	Length (±2), mm	Width(±2), mm	Height max (±2), mm	Weight, kg	Body	Terminal type
HRL 12-155 W	12	28	165	125	175	9,5	E	For M5 bolt
HRL 12-170 W	12	33	195	130	168	11,5	B	For M6 bolt
HRL 12-211 W	12	45	198	166	170	14,8	E	For M6 bolt
HRL 12-260 W	12	55	229	138	213	18	B	For M6 bolt
HRL 12-350 W	12	75	258	166	215	24,5	B	For M6 bolt
HRL 12-370 W	12	80	350	167	179	26,2	B	For M6 bolt
HRL 12-460 W	12	90	306	170	225	28,5	B	For M6 bolt
HRL 12-480 W	12	100	330	171	220	32	B	For M6 bolt
HRL 12-570 W	12	120	410	176	224	36,5	B	For M6 bolt
HRL 12-630 W	12	140	341	173	279	41	B	For M8 bolt
HRL 12-670 W	12	150	482	170	240	45	B	For M8 bolt
HRL 12-830 W	12	192	530	209	220	57	F	For M8 bolt
HRL 12-980 W	12	220	522	238	223	67,5	F	For M8 bolt

*Capacitance is indicated at the 10-hour discharge