

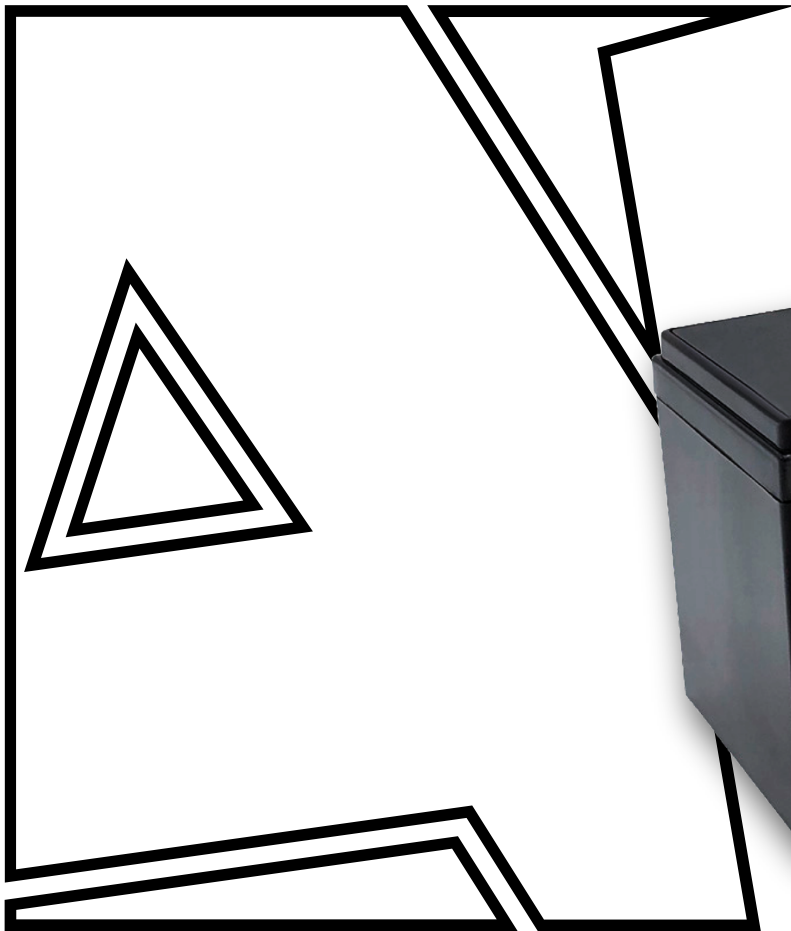


ARIET

HR1236W

Lead-acid battery

for UPS



UPS



Data Centers

ARIET High Rate VRLA batteries are designed specifically for high-drain equipment. High energy consumption and low resistance technology make the HR series ideal for operation in the harshest conditions.

High-efficiency plates and electrolyte provide additional output power for **high-speed UPS** and battery backup systems.

They efficiently deliver large amounts of energy in a short time, maintaining a stable and high output current even under intensive loads.

These batteries feature a long service life, resistance to frequent deep discharge and charge cycles, and low self-discharge, making them ideal for long-term operation and regular use.

Complies with IEC, BS, JIS, and Eurobat standards and is UL (MH62092) and CE certified.



SCENARIOS

Data Center

High power backup power supply

Telecommunication systems

Alarm systems

UPS / Data Center (high discharge current)

Fire and security systems

CONSTRUCTION

Positive — Lead dioxide
Electrolyte — Sulfuric acid
Separator — AGM

Negative— Lead
Safety Valve — Rubber
Terminal — Copper
Container — ABS (UL94-HB) / Flame Retardant ABS (UL94-V0)

BENEFITS

The sealed design of the battery ensures safe operation and eliminates electrolyte leakage under normal operating conditions.

The non-spill design of the case allows the battery to be used in various positions without the risk of electrolyte leakage.

The battery design ensures high reliability and stability of operating parameters even during long-term and intensive use.

The sealed and maintenance-free design eliminates the need for water refills and regular maintenance throughout its entire service life.

Low self-discharge ensures long battery life when not in use and high readiness for operation without frequent recharging.

The optimized design allows for an output power increase of up to **30%** with a backup time of **15 minutes**, which is especially important for high-power **UPS**.

Technical specifications

Battery Mode	Nominal Voltage		12V (6 cells per unit)	
	Capacity (15 minutes rate to 1.67V/cell)		36 W	
Capacity at 25°C	(20-hour rate)		(5-hour rate)	
	6.00 Ah		7.95 Ah	
Dimension	Length	Width	Height	Total Height
	151 mm	65 mm	94 mm	100 mm
Approx Weight	2.65 kg ± 3%			
Internal Resistance	Full charged at 25°C (77°F): Approx 19.0 mΩ			
Maximum Charge Current	2.70 A			
Max. discharge current	135 A (5 sec.)			
Short-circuit current	440 A			
Estimated service life (in buffer mode)	10-12 years at 20°C			
Operating Temperature Range	Nominal Operating Temperature	Discharge	Charge	Storage
	25°C±3°C	-15°C ~ 50°C	-10°C ~ 50°C	-20°C ~ 50°C
Temperature compensation	Float charge	-18 (mV/°C/Block)		
	Cycle charge	-30 (mV/°C/Block)		
Charge method at 25°C	Float Charging Voltage 13.6~13.8 VDC (-3mV/cell/°C)		Cycle Use Voltage 14.5~15.0 VDC (-5mV/cell/°C)	
Self discharge rate 25°C	≤3%/month			

Constant current discharge characteristics at 25°C

(Ampere/cell)

F.V/ Time	5min	10min	15min	20min	30min	45min	60min	2h	3h	4h	5h
1.60V/cell	42.5	25.7	18.69	14.80	12.22	7.49	5.92	3.31	2.35	1.89	1.62
1.67V/cell	38.8	24.6	18.06	14.17	11.82	7.25	5.78	3.28	2.33	1.87	1.61
1.70V/cell	35.9	23.9	17.53	13.86	11.60	7.12	5.68	3.26	2.32	1.87	1.60
1.75V/cell	32.7	22.9	17.01	13.44	11.32	6.94	5.57	3.21	2.30	1.85	1.59
1.80V/cell	30.8	21.5	16.06	12.94	10.91	6.68	5.40	3.13	2.23	1.80	1.55

Constant power discharge characteristics at 25°C

(Watts/cell)

F.V/ Time	5min	10min	15min	20min	30min	45min	60min	2h	3h	4h	5h
1.60V/cell	76.8	47.9	36.8	28.4	20.4	14.5	11.5	6.58	4.72	3.80	3.27
1.67V/cell	72.6	45.7	35.5	27.3	19.7	14.2	11.2	6.52	4.68	3.77	3.24
1.70V/cell	70.0	44.5	34.5	26.7	19.4	14.0	11.0	6.48	4.66	3.75	3.22
1.75V/cell	66.4	42.6	33.4	25.8	18.9	13.7	10.8	6.39	4.63	3.73	3.20
1.80V/cell	60.8	40.3	31.6	24.4	18.2	13.5	10.5	6.22	4.49	3.61	3.11

Outer dimension (mm)

Terminal Type

