

# ELX HR12-12 / 12V 12Ah

## HR series - VRLA battery



### High Rate Series Battery

JYC HR (High Rate) Series VRLA batteries are designed with low internal resistance AGM (Absorbent Glass Mat) technology, High performance plates and electrolyte to give extra power output for High rate UPS and power backup system. High rate series Batteries are the special design batteries with 5 years floating design life at 25°C Meet with IEC, BS,JIS and Eurobat standard.

### Application

- \* Emergency Power System
- \* Communication equipment
- \* Telecommunication systems
- \* Uninterruptible power supplies
- \* Power tools
- \* Alarm system
- \* Security system
- \* Fire and Security System. etc.



### General Features

- \* Safety Sealing
- \* Non-spillable construction
- \* High Reliability and Stability
- \* Sealed and Maintenance-free

### Construction

- \* Positive ..... Lead dioxide
- \* Electrolyte ..... Sulfuric acid
- \* Negative ..... Lead
- \* Safety Valve ..... EPDR

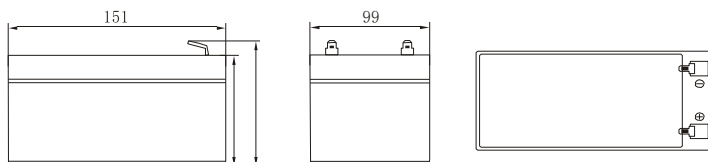
- \* Long Life and low self-discharge design
- \* 30% increased power output at 15M backup time.

- \* Separator ..... Fiber glass
- \* Terminal ..... Copper
- \* Container ..... ABS(UL94-HB), Flammability Resistance of UL94-V0 can be available upon request

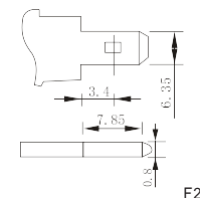
### Specification

Battery Model	Nominal Voltage		12V	
	Cells Per Battery		6	
	Capacity (15 minutes rate to 1.67V/Cell)		48W	
	Rated capacity (20 Hour rate)		12Ah	
Dimensions	Length	Width	Height	Total Height
	152mm (5.98 inches)	99mm (3.89 inches)	95mm (3.74 inches)	100mm (3.94 inches)
Approx Weight	3.5kg (7.71lbs) ± 4%			
Capacity @ 25°C (77 °F)	30 Min rate(10.2V)		15 Min rate (10.02V)	5 Min rate (9.6V)
	27.05W		48.0W	98.8W
Max.discharge current	120A (5 Sec.)			
Internal Resistance	Full charged at 25°C: Approx 16mΩ			
Capacity affected by Temp.(20 HR)	40°C (104°F)	25°C (77°F)	0°C (32°F)	-15°C (5°F)
	102%	100%	85%	65%
Self Discharge @25°C (77 °F)	After 3 months storage		After 6 months storage	After 12 months storage
	91%		82%	64%
Charge method @25°C (77 °F)	Cycle Use		Float Use	
	14.1-14.4V (Initial charging current less than 3.6A)		13.50-13.80V	

### Outer dimensions (mm)



### Terminal Type (mm)



Constant Current(Amp) Discharge at 25°C									Constant Power(Watt) Discharge at 25°C (77°F)								
F.V/Time	5min	8min	10min	15min	20min	30min	60min	90min	F.V/Time	5min	8min	10min	15min	20min	30min	60min	90min
1.60V	54.87	43.88	37.57	27.69	21.78	15.51	8.71	6.18	1.60V	98.85	79.25	68.17	50.81	40.11	28.67	16.33	11.7
1.67V	49.83	40.09	34.62	25.87	20.59	14.63	8.31	5.91	1.67V	90.78	73.37	63.74	47.78	38.32	27.59	15.69	11.28
1.70V	47.64	38.38	33.31	25.07	19.98	14.29	8.12	5.79	1.70V	87.69	71.09	61.81	46.98	37.47	27.01	15.41	11.07
1.75V	44.13	35.74	31.17	23.79	18.99	13.64	7.85	5.62	1.75V	82.17	66.99	58.63	44.67	36.07	26.09	15.02	10.77
1.80V	40.31	33.12	29.09	22.48	18.02	13.09	7.54	5.45	1.80V	76.22	62.57	55.28	42.64	34.65	25.15	14.59	10.59
1.85V	34.67	28.27	24.61	19.33	15.67	11.58	6.83	4.98	1.85V	67.15	54.11	47.67	37.17	30.37	22.37	13.48	9.72

