

# ELHR-12V90AH



### Specification

<b>Nominal Voltage</b>	12V
<b>Nominal Capacity(20HR)</b>	90Ah at 180V/cell @250C/77°F
<b>Dimensions</b>	Length 260±3mm (10.24 inches)
	Width 168±2mm (6.61 inches)
	Container Height 208±3mm (8.19inches)
	Total Height (with Terminal) 214±2mm (8.42inches)
<b>Approx Weight</b>	Approx 24.2 kg (53.4lbs)
<b>Terminal</b>	T6
<b>Container Material</b>	ABS
<b>Rated Capacity</b>	90.0 AH/8.0A (10hr, 1.80V/cell, 25°C/77°F)
	76.4 AH/9.55A (8hr, 1.80V/cell, 25°C/77°F)
	66.5 AH/13.3A (5hr, 1.75V/cell, 25°C/77°F)
	57.0AH/19.0A (3hr, 1.75V/cell, 25°C/77°F)
	50.3 AH/50.3A (1hr, 1.60V/cell, 25°C/77°F)
<b>Max. Discharge Current</b>	1200A (5s)
<b>Internal Resistance</b>	Approx 5.0mΩ
<b>Operating Temp. Range</b>	Discharge : -15~50°C (5~122°F)
	Charge : 0~40°C (32~104°F)
	Storage : -15~40°C (5~104°F)
<b>Nominal Operating Temp. Range</b>	25±30C (77±5°F)
<b>Cycle Use</b>	Initial Charging Current less than 27.0A. Voltage 14.4V~15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C
	No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C
<b>Standby Use</b>	
<b>Capacity affected by Temperature</b>	40° C (104° F) 103%
	25° C (77° F) 100%
	0° C (32° F) 86%
<b>Self Discharge</b>	Ideal Power series batteries may be stored for up to 9 months at 250 C(77°F) and then a freshening charge is required.

### Applications

- UPS (High rate)
- Emergency power supply
- Banks & Financial Markets
- Hospitals & Testing Laboratories
- Industrial Process Control Facilities
- Date & Network Operations Centers

### Compliant Standards

- IEC60896-21/22:2004
- BS 6290 Part 4



### Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	25min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h
1.85V/cell	167.4	130.6	110.3	95.0	79.6	69.3	49.8	39.3	28.4	23.0	17.2	14.3	12.4	9.30	7.85
1.80V/cell	190.8	148.0	122.4	103.7	86.3	74.7	53.9	42.5	30.5	24.6	18.3	15.0	13.0	9.55	8.00
1.75V/cell	214.1	164.3	134.7	112.3	93.1	80.3	57.2	45.0	32.2	25.8	19.0	15.4	13.3	9.72	8.08
1.70V/cell	236.7	179.1	147.6	120.4	99.4	85.4	60.2	47.4	33.6	26.7	19.6	15.8	13.6	9.85	8.16
1.67V/cell	253.8	192.6	159.1	126.9	104.0	88.8	62.7	48.9	34.7	27.5	20.0	16.2	13.9	9.99	8.23
1.60V/cell	275.3	206.1	167.4	132.1	107.8	91.7	64.4	50.3	35.5	28.1	20.4	16.5	14.1	10.12	8.32

### Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	25min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h
1.85V/cell	314.0	248.8	212.9	185.0	155.8	136.5	98.9	78.6	57.0	46.2	34.7	28.9	25.3	19.0	16.1
1.80V/cell	355.5	280.0	235.0	201.0	168.1	146.3	106.6	84.5	61.0	49.2	36.7	30.3	26.3	19.5	16.4
1.75V/cell	396.3	309.0	257.2	216.5	180.2	156.1	112.5	89.3	64.0	51.4	38.0	30.9	26.9	19.8	16.5
1.70V/cell	434.9	335.0	279.9	230.6	191.4	165.3	117.7	93.5	66.5	53.0	39.1	31.7	27.4	20.0	16.6
1.67V/cell	462.2	356.8	299.0	241.1	198.7	170.5	121.7	95.8	68.3	54.4	39.8	32.5	27.8	20.2	16.8
1.60V/cell	495.8	378.6	311.8	248.6	204.1	174.4	123.9	97.7	69.3	55.1	40.4	32.9	28.3	20.4	16.9