

## ELA12V18AH

### Specification

<b>Nominal Voltage</b>	12V	
<b>Nominal Capacity(20HR)</b>	18.0 AH	
<b>Dimensions</b>	Length	181.5±2mm (7.14 inches)
	Width	77±1mm (3.03 inches)
	Container Height	167.5±1mm (6.59 inches)
	Total Height (with Terminal)	167.5±2mm (6.59 inches)
<b>Approx Weight</b>	Approx 5.4 kg (11.9lbs)	
<b>Terminal</b>	T3/T12	
<b>Container Material</b>	ABS	
<b>Rated Capacity</b>	18.0 AH/0.60A	(20hr ,1.80V/cell, 25°C/77°F)
	16.7 AH/1.67A	(10hr,1.80V/cell, 25°C/77°F)
	15.1 AH/3.034A	(5hr,1.75V/cell, 25°C/77°F)
	13.5 AH/4.49A	(3hr,1.75V/cell, 25°C/77°F)
	11.1AH/11.1A	(1hr,1.60V/cell, 25°C/77°F)
<b>Max. Discharge Current</b>	150A (5s)	
<b>Internal Resistance</b>	Approx 65mΩ	
<b>Operating Temp.Range</b>	Discharge : 1~50°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 <sub>o</sub> ±3°C (77±5°F)	
<b>Cycle Use</b>	Initial Charging Current less than 5.4A.Voltage	
	14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
<b>Standby Use</b>	No limit on Initial Charging Current Voltage	
	13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
<b>Capacity affected by Temperature</b>	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%



### Applications

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Emergency light
- Railway signal
- Aircraft signal
- Alarm and security system
- Electronic apparatus and equipment
- Communication power supply
- DC power supply
- Auto control system



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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	33.9	25.6	22.7	19.9	15.3	11.4	9.11	5.51	4.13	3.35	2.84	2.47	1.96	1.63	0.884
1.80V/cell	40.8	30.2	25.9	22.1	16.7	12.2	9.79	5.85	4.34	3.51	2.94	2.55	2.02	1.67	0.900
1.80V/cell	45.8	33.0	27.8	23.4	17.4	12.8	10.2	6.07	4.49	3.60	3.03	2.62	2.06	1.70	0.918
1.70V/cell	49.9	35.4	29.7	24.7	18.1	13.2	10.6	6.27	4.63	3.69	3.09	2.67	2.09	1.72	0.929
1.65V/cell	53.8	37.7	31.1	25.8	18.9	13.8	10.9	6.44	4.73	3.77	3.14	2.71	2.12	1.74	0.938
1.60V/cell	57.9	39.6	31.9	26.4	19.3	14.0	11.1	6.59	4.82	3.84	3.20	2.74	2.15	1.76	0.945

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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	64.0	48.8	43.6	38.5	29.8	22.3	17.9	10.9	8.21	6.68	5.68	4.95	3.95	3.29	1.79
1.80V/cell	76.3	57.2	49.5	42.7	32.4	23.9	19.2	11.5	8.59	6.98	5.86	5.09	4.04	3.36	1.81
1.75V/cell	84.8	62.0	52.8	44.8	33.6	24.9	20.0	11.9	8.87	7.14	6.02	5.21	4.11	3.39	1.82
1.70V/cell	91.1	65.6	55.7	46.8	34.7	25.6	20.6	12.2	9.06	7.25	6.08	5.27	4.15	3.42	1.83
1.65V/cell	96.6	68.8	57.5	48.4	35.8	26.3	21.0	12.5	9.19	7.35	6.15	5.32	4.18	3.43	1.84
1.60V/cell	101.5	70.8	58.0	48.7	36.0	26.5	21.3	12.7	9.31	7.45	6.22	5.33	4.21	3.45	1.85