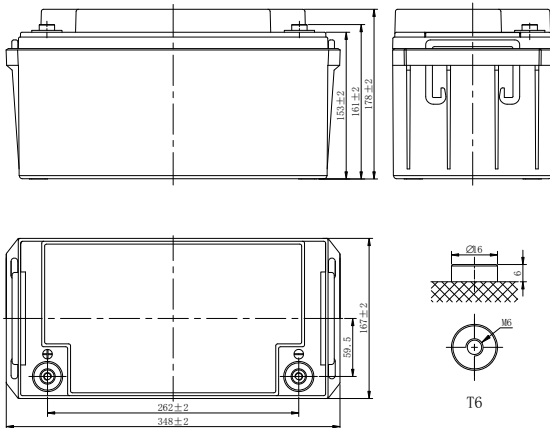


LS 12-70 (12V-70AH) LONG LIFE SERIES



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C ₁₀ , 1.80V/cell	70Ah
Dimension	Length	348mm (13.7inches)
	Width	167mm (6.57inches)
	Container Height	178mm (7.01inches)
	Total Height	178mm (7.01inches)
Approx Weight	23.1kg (50.9lbs)	
Terminal	T6(M6)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	1610A	
Internal Resistance (25°C)	Approx 6.6 mΩ (Fully charged)	
Operating Temp. Range	Discharge	-15~50°C (5~122°F)
	Charge	-20~40°C (-4~104°F)
	Storage	-15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max.Charging Current (25°C)	0.3C	
Charge voltage (25°C)	Float Charge	Equalization Charge
	2.25-2.30V/cell	2.35-2.40V/cell
Temp. Coefficient	-3mV/cell/°C	-5mV/cell/°C
	40°C (104°F)	103%
Effect of temp. to Capacity	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤3% per month at 25°C (77°F). LS series batteries may be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

DISCHARGE TABLE

Constant Current Discharge (Amperes) at 25°C (77°F)														
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	123.6	99.7	81.8	66.9	47.3	38.3	26.4	17.5	13.7	11.7	10.1	7.89	6.78	3.62
1.80V/cell	157.9	120.5	96.7	78.9	55.0	42.9	28.8	18.9	14.6	12.5	10.9	8.30	7.00	3.75
1.75V/cell	173.5	131.6	104.0	81.9	57.1	44.9	29.9	19.2	15.0	12.8	11.2	8.58	7.19	3.84
1.70V/cell	189.1	140.5	109.3	85.3	59.4	46.3	31.1	19.8	15.4	13.2	11.4	8.94	7.46	3.94
1.67V/cell	204.1	149.4	116.2	90.0	60.9	47.9	32.0	20.6	15.9	13.5	11.7	9.25	7.67	4.06
1.60V/cell	221.6	159.8	123.7	95.0	63.5	49.6	33.0	21.2	16.4	14.0	11.9	9.41	7.83	4.13
Constant Power Discharge (Watts/cell) at 25°C (77°F)														
F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	230.8	188.0	155.9	128.8	91.9	74.6	51.9	34.5	27.1	23.1	20.1	15.7	13.6	7.24
1.80V/cell	291.5	224.2	181.6	149.7	106.1	83.2	56.2	37.0	28.8	24.7	21.5	16.5	14.0	7.49
1.75V/cell	315.2	241.9	192.5	154.2	109.0	86.6	58.1	37.5	29.4	25.2	22.0	17.0	14.3	7.66
1.70V/cell	335.8	254.7	201.8	159.6	113.0	89.1	60.3	38.5	30.0	25.8	22.5	17.7	14.9	7.86
1.67V/cell	359.1	268.8	212.8	167.0	114.8	91.4	61.6	39.9	30.9	26.5	22.9	18.3	15.3	8.09
1.60V/cell	381.1	282.7	224.3	175.0	119.0	94.2	63.4	41.0	31.8	27.2	23.3	18.6	15.5	8.21

LS 12-70 (12V-70AH) LONG LIFE SERIES



APPLICATIONS

- UPS and EPS
- Emergency light
- Railway signal and aircraft signal system
- Marine and power stations
- Alarm and security system
- Electronic apparatus and equipment
- Communication power supply, DC power supply

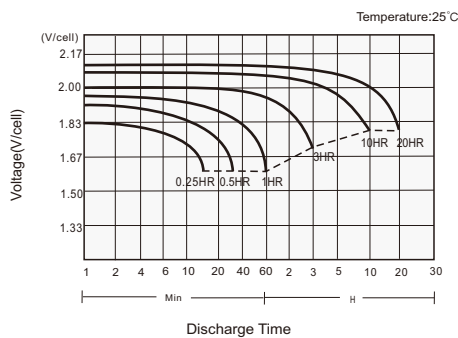
GENERAL FEATURES

- 12 years design life (25°C)
- Lead calcium alloy, sealed design, no watering required
- Puncture resistant micro-porous glass mat separators extend life
- Unique technology optimizes power capacity, cell consistency, and long-term reliability
- Designed for a wide range of applications

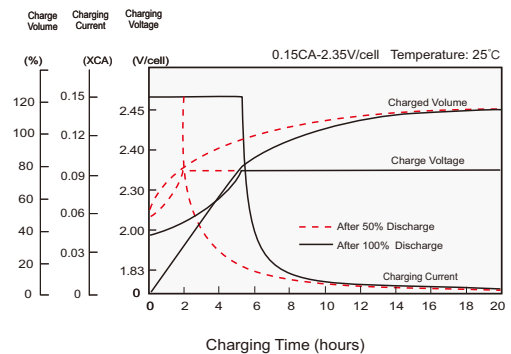
STANDARDS

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Approved
- Manufactured in DESA, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

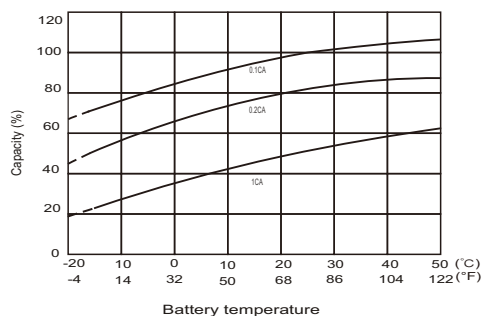
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

