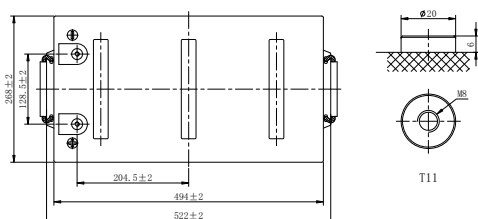


LS 12-250 (12V-250AH) LONG LIFE SERIES



CHARACTERISTICS



Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C ₁₀ , 1.80V/cell	250Ah
Dimension	Length	522mm (20.6inches)
	Width	268mm (10.6inches)
	Container Height	220mm (8.66inches)
	Total Height	226mm (8.90inches)
Approx Weight	76.5kg (168.7lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	4500A	
Internal Resistance (25°C)	Approx 2.7 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	351.4	304.6	257.4	210.1	153.7	130.2	79.3	58.2	45.6	39.6	34.9	26.9	23.9	12.7
1.80V/cell	398.8	345.2	287.0	228.8	162.8	134.8	81.9	63.1	48.7	41.7	37.5	28.3	25.0	13.1
1.75V/cell	432.5	373.7	303.6	233.5	168.7	141.5	86.2	64.4	49.6	42.4	37.8	28.4	25.3	13.3
1.70V/cell	461.2	396.9	317.5	238.1	172.1	144.3	87.9	65.6	50.5	43.1	38.0	28.8	25.5	13.4
1.67V/cell	475.7	408.5	325.1	241.6	174.6	146.4	89.2	66.2	51.3	44.0	38.2	29.2	25.8	13.6
1.60V/cell	492.0	421.2	333.2	245.1	177.1	148.6	90.5	66.9	51.9	44.6	38.4	29.6	26.1	13.7
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	661.0	576.8	477.2	377.5	283.7	246.7	154.3	113.7	89.5	78.0	69.0	53.3	47.5	25.2
1.80V/cell	739.4	645.2	526.5	407.7	298.6	254.2	158.5	122.8	95.2	81.7	73.8	55.9	49.6	26.1
1.75V/cell	789.2	688.6	550.8	412.9	307.5	265.5	166.2	124.9	96.7	82.9	74.2	56.1	50.1	26.3
1.70V/cell	829.6	723.9	570.8	417.6	311.5	269.4	168.8	126.8	98.0	84.0	74.4	56.9	50.5	26.6
1.67V/cell	843.1	735.7	578.2	420.6	314.3	271.8	170.6	127.5	99.2	85.4	74.6	57.5	51.1	26.9
1.60V/cell	854.9	746.0	584.2	422.4	315.9	273.8	172.0	128.0	99.9	86.3	74.9	58.1	51.6	27.1

LS 12-250 (12V-250AH) 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

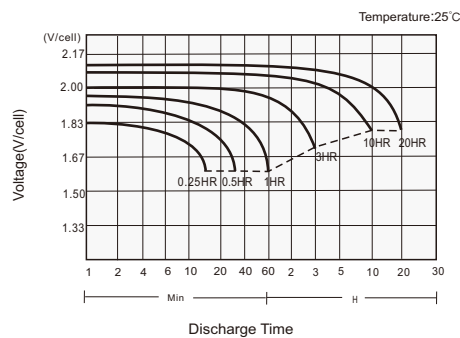
GENERAL FEATURES

- 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

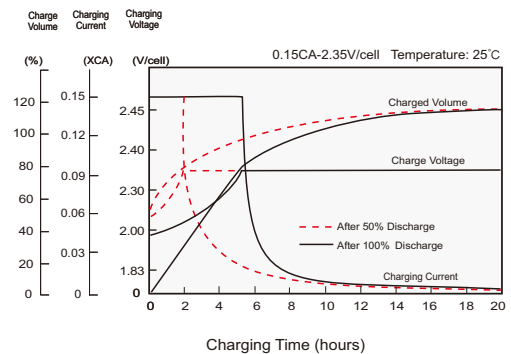
STANDARDS

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

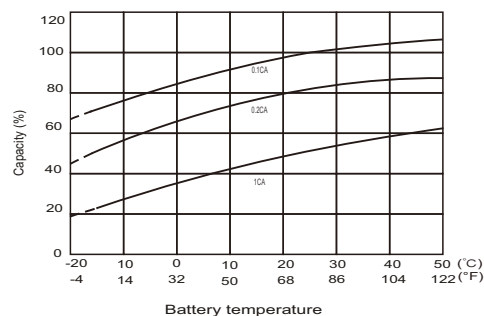
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

