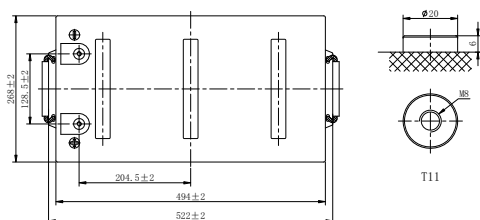


LS 12-225 (12V-225AH) LONG LIFE SERIES



CHARACTERISTICS



Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C ₁₀ , 1.80V/cell	225Ah
Dimension	Length	522mm (20.6inches)
	Width	268mm (10.6inches)
	Container Height	220mm (8.66inches)
	Total Height	226mm (8.90inches)
Approx Weight	70.5kg (155.4lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	4050A	
Internal Resistance (25°C)	Approx 3 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	316.2	274.2	227.8	181.4	135.5	117.2	72.8	53.4	41.9	36.4	32.1	24.7	21.5	11.4
1.80V/cell	358.9	310.7	254.1	197.5	143.6	121.4	75.2	58.0	44.7	38.3	34.5	25.9	22.5	11.8
1.75V/cell	389.3	336.4	269.0	201.6	148.7	127.3	79.2	59.1	45.6	38.9	34.7	26.1	22.7	11.9
1.70V/cell	415.0	357.2	281.4	205.6	151.7	129.9	80.8	60.3	46.4	39.6	34.9	26.5	23.0	12.0
1.67V/cell	428.2	367.7	288.2	208.6	153.9	131.8	82.0	60.8	47.1	40.4	35.1	26.9	23.2	12.2
1.60V/cell	442.8	379.1	295.4	211.6	156.2	133.7	83.1	61.4	47.7	41.0	35.3	27.2	23.5	12.3
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	594.9	519.1	432.9	346.7	260.5	226.6	141.7	104.4	82.2	71.7	63.4	48.9	42.7	22.7
1.80V/cell	665.5	580.7	477.6	374.5	274.2	233.4	145.6	112.8	87.5	75.0	67.8	51.3	44.7	23.5
1.75V/cell	710.2	619.8	499.5	379.2	282.4	243.9	152.7	114.7	88.8	76.1	68.1	51.5	45.1	23.7
1.70V/cell	746.7	651.5	517.5	383.5	286.1	247.4	155.1	116.5	90.0	77.2	68.4	52.2	45.5	23.9
1.67V/cell	758.8	662.1	524.2	386.3	288.7	249.6	156.7	117.1	91.1	78.5	68.5	52.8	46.0	24.2
1.60V/cell	769.4	671.4	529.7	387.9	290.1	251.5	158.0	117.5	91.7	79.2	68.7	53.4	46.5	24.4

LS 12-225 (12V-225AH) 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

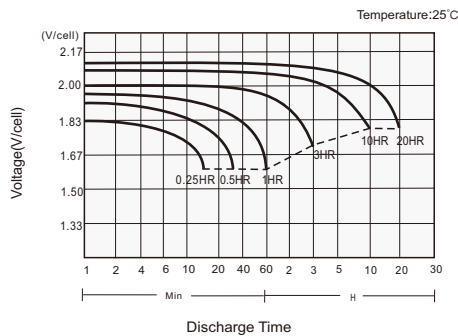
GENERAL FEATURES

- 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

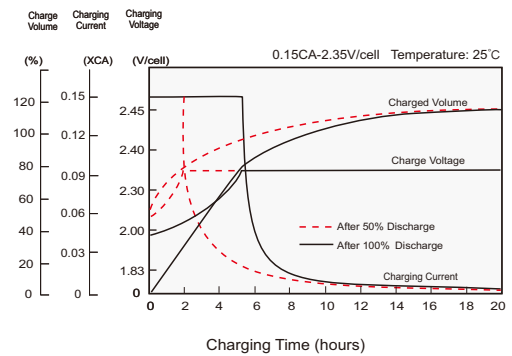
STANDARDS

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

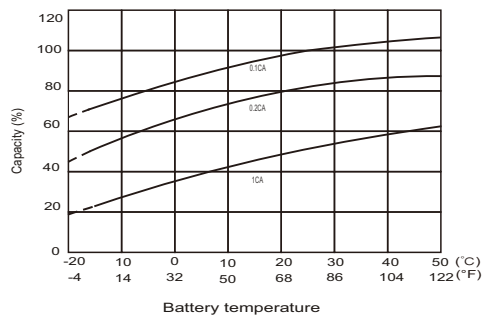
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

