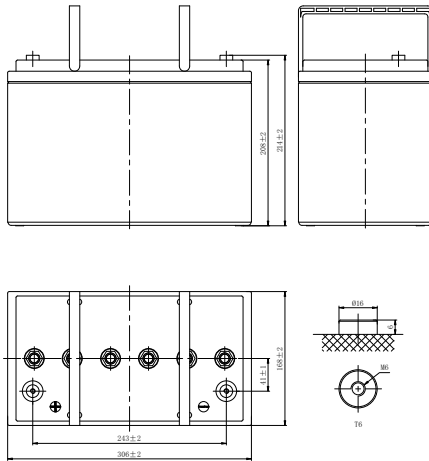


DSG SERIES - GELL BATTERY

DSG12-85 (12V-85AH)



CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (25°C)		C ₂₀ 1.80V/cell 85Ah
Dimension	Length	306mm (12.0inches)
	Width	168mm (6.61inches)
	Container Height	208mm (8.19inches)
	Total Height	214mm (8.43inches)
Approx Weight		27.5kg (60.6lbs)
Terminal		T6(M6)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		1785A
Internal Resistance (25°C)		Approx 7.4 mΩ (Fully charged)
Operating Temp. Range	Discharge	-20~60°C (-4~140°F)
	Charge	-20~40°C (-4~104°F)
	Storage	-20~50°C (-4~122°F)
Nominal Operating Temp. Range		25±3°C (77±5°F)
Max.Charging Current (25°C)		0.25C
Charge voltage (25°C)	Standby Use	Cycle Use
	2.23-2.27V/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		≤2.5% per month at 25°C (77°F). DSG series batteries may be stored up to 9 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	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	111.9	97.0	76.3	62.6	47.8	40.0	30.1	24.7	19.6	15.9	13.9	12.1	9.83	8.33	4.30
1.80V/cell	127.0	109.9	86.2	69.4	52.3	44.2	33.2	27.2	21.5	17.3	14.6	12.8	10.3	8.50	4.50
1.75V/cell	137.7	119.0	93.1	75.6	55.9	49.6	36.6	29.2	22.4	17.7	15.0	13.2	10.4	8.62	4.64
1.70V/cell	144.1	125.0	98.0	81.1	59.7	51.1	37.5	29.7	22.8	17.9	15.3	13.3	10.5	8.78	4.70
1.67V/cell	151.5	130.1	101.4	83.4	60.9	52.1	38.3	30.3	23.1	18.2	15.5	13.5	10.6	8.84	4.74
1.60V/cell	156.6	134.1	104.0	88.4	64.8	53.8	39.4	31.0	23.4	18.5	15.8	13.7	10.7	8.93	4.80
Constant Power Discharge (Watts/cell) at 25°C (77°F)															
F.V/Time	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	210.4	183.6	145.1	120.8	92.7	77.7	58.6	48.3	38.5	31.3	27.4	23.9	19.4	16.5	8.56
1.80V/cell	235.4	205.4	162.3	132.4	100.5	85.3	64.3	52.9	42.0	33.9	28.7	25.2	20.3	16.8	8.94
1.75V/cell	251.2	219.2	173.2	143.0	106.9	95.0	70.4	56.4	43.5	34.4	29.4	25.7	20.5	17.1	9.20
1.70V/cell	258.2	227.2	180.0	151.5	113.2	97.1	71.8	57.2	44.1	34.7	29.7	26.0	20.7	17.3	9.32
1.67V/cell	268.4	234.2	185.0	154.7	114.8	98.7	73.0	58.2	44.6	35.2	30.1	26.3	20.8	17.4	9.39
1.60V/cell	272.2	237.5	187.6	162.5	121.3	101.0	74.4	59.0	44.8	35.7	30.6	26.6	20.9	17.5	9.51

DSG SERIES - GELL BATTERY

DSG12-85 (12V-85AH)



APPLICATIONS

- Telecommunications
- Solar system
- Wind power system
- Engine starting
- Wheelchair, Floor cleaning machines, Golf trolley, Boats

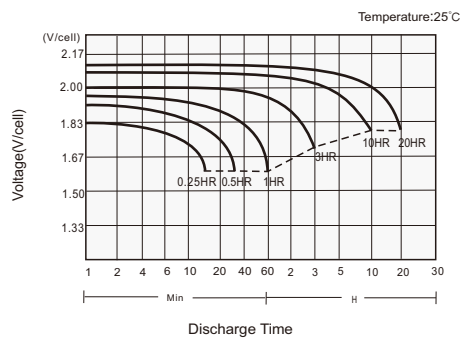
GENERAL FEATURES

- 12 years design life (25°C)
- Gelled electrolyte for superior thermal management, long float life
- Efficient gas recombination decreases gassing/water and extends battery life
- Robust design - resilient in harsh conditions
- Proof against deep discharge - greater long-term energy delivery and cycle life

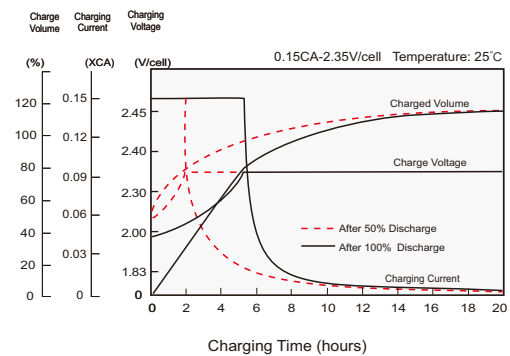
STANDARDS

- IEC60896 Certified
- Classified as "Long Life" according to Eurobat
- UL, CE Approved
- Manufactured in DESA, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

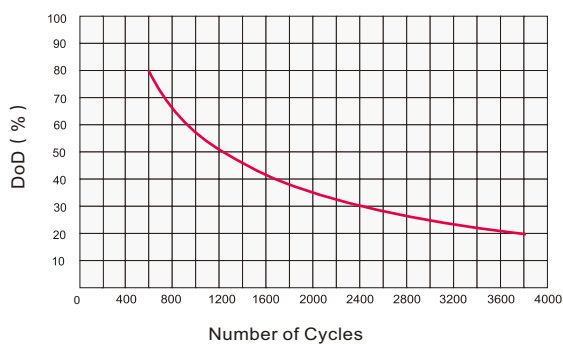
Discharge Characteristics



Charging Characteristics



Cycle Life in Relation to DoD



Self Discharge Characteristics

