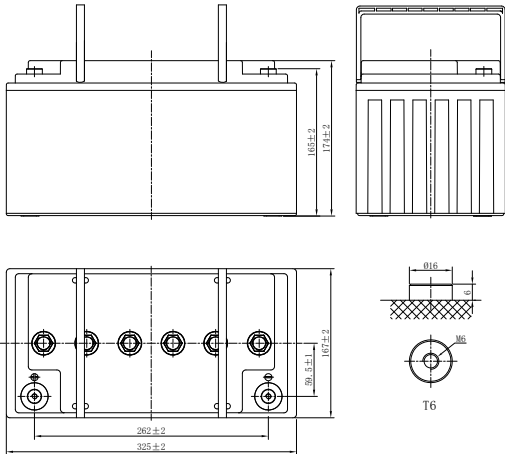


DSG SERIES -GELL BATTERY

DSG12-65 (12V-65AH)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C ₂₀ 1.80V/cell	65Ah
Dimension	Length	325mm (12.8inches)
	Width	167mm (6.57inches)
	Container Height	174mm (6.85inches)
	Total Height	174mm (6.85inches)
Approx Weight	20.5kg (45.2lbs)	
Terminal	T6(M6)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	1365A	
Internal Resistance (25°C)	Approx 9.4 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	79.0	68.5	53.8	48.7	35.6	28.2	21.9	17.4	13.8	11.3	9.78	8.56	6.94	5.88	3.04
1.80V/cell	89.6	77.6	60.9	53.0	37.7	31.2	23.2	19.2	15.2	12.2	10.3	9.05	7.24	6.00	3.25
1.75V/cell	97.2	84.0	65.7	54.1	39.1	35.0	25.4	20.6	15.8	12.6	10.6	9.37	7.35	6.18	3.27
1.70V/cell	101.7	88.2	69.2	54.5	39.7	36.1	26.0	21.0	16.1	12.7	10.7	9.43	7.42	6.22	3.32
1.67V/cell	106.9	91.8	71.6	56.0	40.5	36.8	26.5	21.4	16.3	12.8	10.9	9.50	7.48	6.24	3.35
1.60V/cell	110.6	94.7	73.4	56.8	41.1	38.0	27.3	21.9	16.5	13.1	11.2	9.65	7.54	6.30	3.39
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	148.5	129.6	102.4	93.1	68.5	54.8	42.6	34.1	27.1	22.2	19.3	16.9	13.7	11.7	6.05
1.80V/cell	166.2	145.0	114.5	100.5	72.1	60.2	44.9	37.3	29.7	23.9	20.2	17.8	14.3	11.9	6.46
1.75V/cell	177.3	154.8	122.3	101.8	74.2	67.1	48.9	39.8	30.7	24.6	20.8	18.4	14.5	12.2	6.50
1.70V/cell	182.3	160.3	127.1	102.3	74.8	68.6	49.7	40.4	31.1	24.7	21.0	18.5	14.6	12.3	6.58
1.67V/cell	189.5	165.3	130.6	103.7	75.9	69.7	50.6	41.1	31.5	24.9	21.3	18.6	14.7	12.4	6.63
1.60V/cell	192.1	167.6	132.4	104.1	76.3	71.3	51.5	41.6	31.7	25.2	21.6	18.8	14.8	12.5	6.71

DSG SERIES -GELL BATTERY

DSG12-65 (12V-65AH)



APPLICATIONS

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

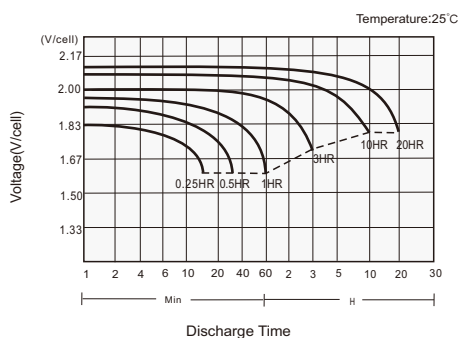
GENERAL FEATURES

- 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

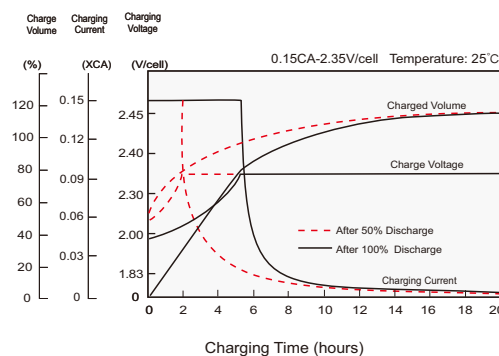
STANDARDS

- 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

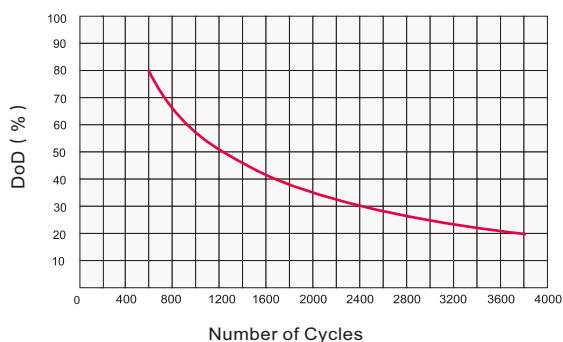
Discharge Characteristics



Charging Characteristics



Cycle Life in Relation to DoD



Self Discharge Characteristics

