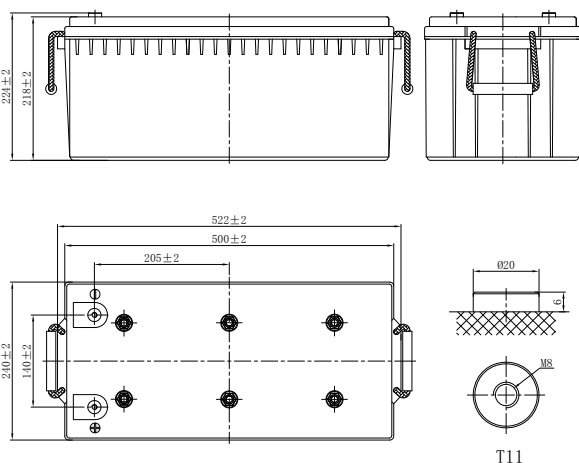


LPG SERIES-GEL BATTERY

LPG12-160 (12V160Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C ₂₀ 1.80V/cell	160Ah
Dimension	Length	522mm (20.6inches)
	Width	240mm (9.45inches)
	Container Height	218mm (8.58inches)
	Total Height	224mm (8.82inches)
Approx Weight	57.5kg (126.8lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	2880A	
Internal Resistance (25°C)	Approx 5.6 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).	
	LPG 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	197.4	171.1	134.6	121.7	89.0	70.5	54.7	43.6	34.6	28.1	24.5	21.4	17.3	14.7	7.60
1.80V/cell	224.1	193.9	152.2	132.6	94.3	78.0	58.0	48.0	38.0	30.6	25.8	22.6	18.1	15.0	8.00
1.75V/cell	243.0	210.0	164.3	135.3	97.7	87.5	63.5	51.5	39.5	31.5	26.6	23.4	18.4	15.5	8.18
1.70V/cell	254.2	220.5	172.8	136.2	99.3	90.3	65.1	52.5	40.2	31.6	26.9	23.5	18.6	15.6	8.29
1.67V/cell	267.3	229.5	178.9	140.0	101.2	92.0	66.4	53.6	40.8	32.1	27.3	23.8	18.7	15.7	8.36
1.60V/cell	276.4	236.6	183.5	142.0	102.6	94.9	68.1	54.7	41.3	32.6	27.9	24.1	18.9	15.8	8.48
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	371.4	324.1	256.0	232.7	171.2	137.0	106.4	85.2	67.9	55.3	48.2	42.2	34.3	29.1	15.1
1.80V/cell	415.4	362.5	286.4	251.3	180.2	150.6	112.4	93.3	74.2	59.9	50.6	44.5	35.7	29.6	15.9
1.75V/cell	443.4	386.9	305.6	254.5	185.6	167.6	122.3	99.6	76.8	61.5	51.9	45.8	36.2	30.5	16.2
1.70V/cell	455.7	400.9	317.7	257.6	187.0	171.4	124.3	101.0	77.7	61.9	52.4	46.1	36.5	30.6	16.5
1.67V/cell	473.7	413.3	326.5	259.2	189.7	174.2	126.5	102.7	78.6	62.2	53.1	46.4	36.7	30.7	16.6
1.60V/cell	480.3	419.1	331.1	260.3	190.6	178.2	128.7	104.0	79.1	63.0	54.1	46.9	36.9	30.9	16.8

LPG SERIES-GEL BATTERY

LPG12-160 (12V160Ah)



APPLICATIONS

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

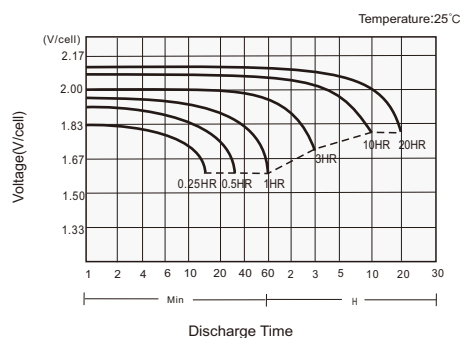
GENERAL FEATURES

- 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

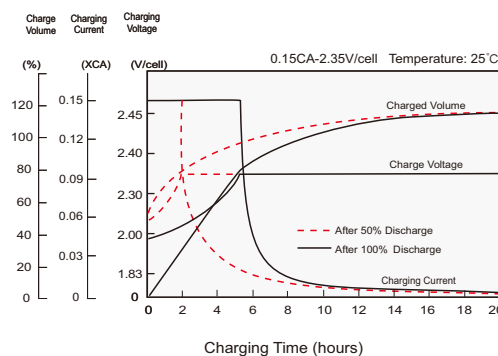
STANDARDS

- IEC60896 Certified
- Classified as "Long Life" according to Eurobat
- UL, CE Approved
- Manufactured in Leoch@IATF16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

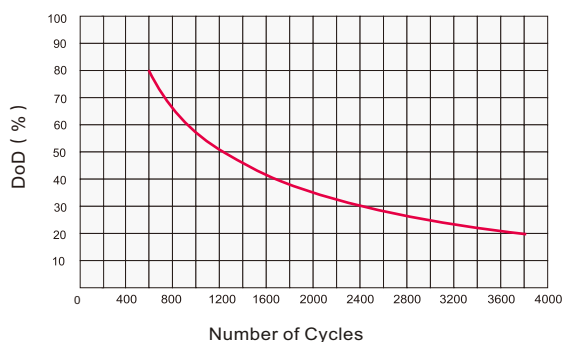
Discharge Characteristics



Charging Characteristics



Cycle Life in Relation to DoD



Self Discharge Characteristics

