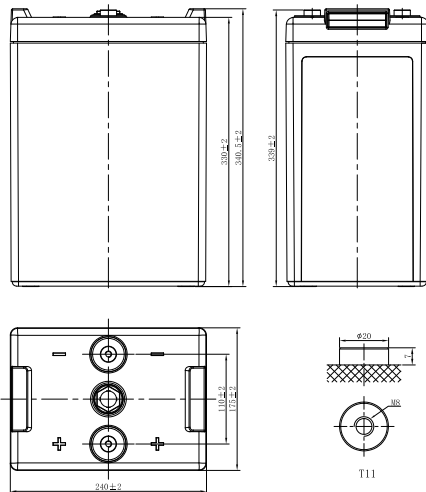


LPGS SERIES-HYBRID GEL BATTERY

LPGS2-500 (2V500Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (25°C)	C ₁₀ , 1.80V/cell	500Ah
Dimension	Length	240mm (9.45inches)
	Width	175mm (6.89inches)
	Container Height	330mm (13.0inches)
	Total Height	339mm (13.3inches)
Approx Weight	30.2kg (66.6lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	6000A	
Internal Resistance (25°C)	Approx 0.6 mΩ (Fully charged)	
Operating Temp. Range	Discharge	-20~55°C (-4~131°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
	2.25-2.30V/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).	
	LPGS series batteries can 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	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	500.0	450.0	372.2	295.2	238.6	148.5	119.3	94.3	81.0	69.4	55.9	47.7	25.3
1.80V/cell	568.0	501.0	399.5	310.5	250.3	156.6	125.5	98.5	85.1	72.5	58.1	50.0	25.9
1.75V/cell	624.0	540.0	423.0	326.5	252.1	163.1	126.0	101.8	85.8	74.3	59.2	50.4	26.3
1.70V/cell	666.0	577.6	443.9	337.1	253.5	167.9	127.3	104.0	86.3	75.5	60.1	50.8	26.6
1.67V/cell	684.1	577.6	454.7	346.3	260.3	170.4	128.2	105.1	86.9	76.2	60.5	51.1	26.7
1.60V/cell	723.1	617.5	473.7	358.5	270.1	175.1	129.5	107.0	88.3	77.3	61.3	51.9	27.0
Constant Power Discharge (Watts/cell) at 25°C (77°F)													
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	946.0	855.3	711.6	567.7	460.8	288.3	232.3	184.4	159.3	136.8	110.7	94.6	50.3
1.80V/cell	1059.5	941.0	756.9	592.5	480.7	302.7	242.7	191.9	166.4	142.3	114.6	99.0	51.3
1.75V/cell	1147.6	1002.7	794.0	618.4	482.4	314.1	244.1	197.8	167.0	145.3	116.5	99.7	52.1
1.70V/cell	1210.9	1062.0	826.7	635.1	483.4	321.9	244.9	201.4	167.7	147.6	118.2	100.3	52.6
1.67V/cell	1232.1	1053.2	839.7	648.4	493.6	325.6	245.6	203.1	168.3	148.5	118.8	100.8	52.8
1.60V/cell	1276.6	1110.3	866.0	665.4	507.8	332.2	248.1	205.8	170.3	150.3	120.1	102.3	53.3

LPGS SERIES-HYBRID GEL BATTERY

LPGS2-500 (2V500Ah)



APPLICATIONS

- Telecommunications
- Uninterruptable Power System
- Power system communication, military communication, etc.
- Network communication including: data transmission, television signal transmission, etc.

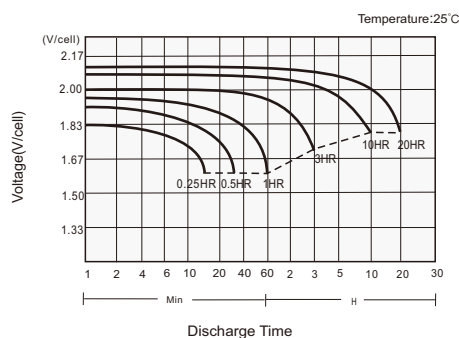
GENERAL FEATURES

- 16 years design life (25°C)
- Proven AGM-GEL technology
- Excellent deep discharge recovery and cyclability
- Very low maintenance: no water addition
- Low self-discharge rate

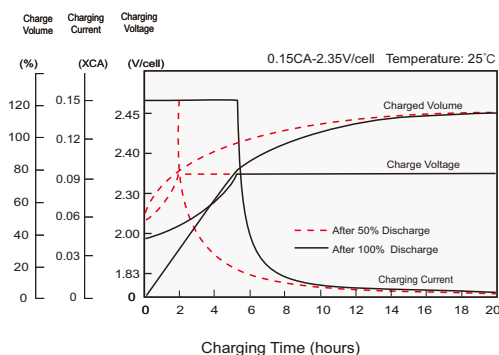
STANDARDS

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

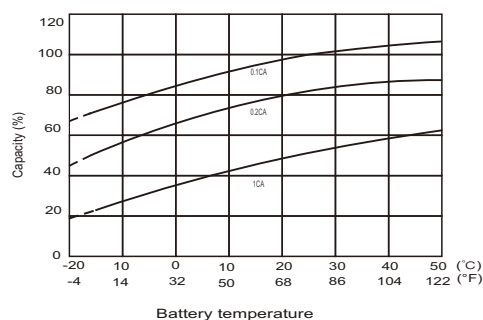
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

