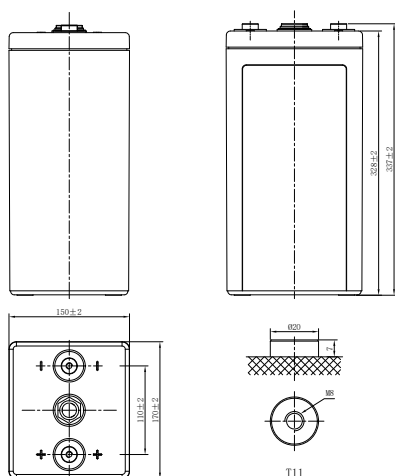


LPGS SERIES-HYBRID GEL BATTERY

LPGS2-300 (2V300Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (25°C)	C ₁₀ , 1.80V/cell	300Ah
Dimension	Length	170mm (6.69inches)
	Width	150mm (5.91inches)
	Container Height	328mm (12.9inches)
	Total Height	337mm (13.3inches)
Approx Weight	18.9kg (41.7lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	3900A	
Internal Resistance (25°C)	Approx 0.8 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	
Effect of temp. to Capacity	40°C (104°F)	103%
	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

F.V/Time	Constant Current Discharge (Amperes) at 25°C (77°F)												
	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	254.8	210.5	168.9	149.2	114.1	91.6	69.4	55.8	46.8	40.9	33.4	28.1	15.1
1.80V/cell	293.5	238.0	188.9	165.1	124.8	99.6	75.1	60.2	50.4	43.9	35.7	30.0	15.9
1.75V/cell	308.0	248.7	196.5	171.2	129.0	102.7	77.1	61.7	51.5	44.8	36.4	30.5	16.1
1.70V/cell	324.1	259.7	204.0	177.5	133.4	106.0	79.4	63.2	52.7	45.8	37.0	30.9	16.3
1.67V/cell	333.3	266.2	208.6	181.2	135.8	107.7	80.5	64.1	53.4	46.3	37.4	31.2	16.4
1.60V/cell	354.9	281.3	219.3	190.0	141.9	112.2	83.5	66.2	55.0	47.6	38.3	31.9	16.7
F.V/Time	Constant Power Discharge (Watts/cell) at 25°C (77°F)												
	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	490.8	406.8	327.5	290.0	222.5	179.0	136.1	109.7	92.1	80.6	66.0	55.6	30.0
1.80V/cell	560.1	456.0	363.5	318.8	242.0	193.7	146.6	117.8	98.9	86.3	70.5	59.3	31.6
1.75V/cell	582.1	472.6	375.4	328.2	248.6	198.6	149.9	120.3	100.8	87.8	71.6	60.1	32.0
1.70V/cell	606.4	489.0	386.6	337.9	255.5	203.8	153.6	122.9	102.8	89.5	72.7	60.9	32.3
1.67V/cell	619.7	498.6	393.3	343.3	259.1	206.5	155.5	124.3	103.9	90.4	73.4	61.4	32.6
1.60V/cell	649.5	520.0	409.2	356.6	268.5	213.6	160.2	127.8	106.6	92.6	74.9	62.6	33.1

LPGS SERIES-HYBRID GEL BATTERY

LPGS2-300 (2V300Ah)



APPLICATIONS

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

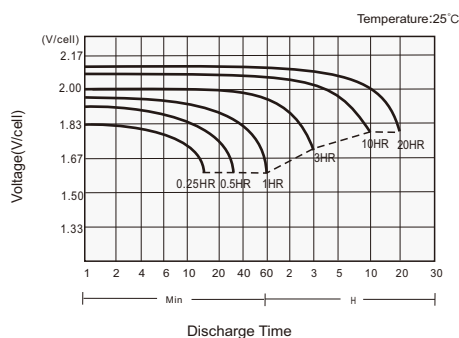
GENERAL FEATURES

- 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

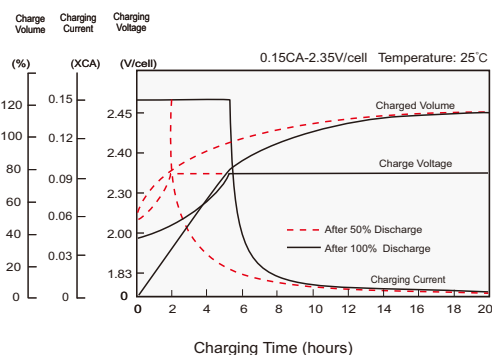
STANDARDS

- 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

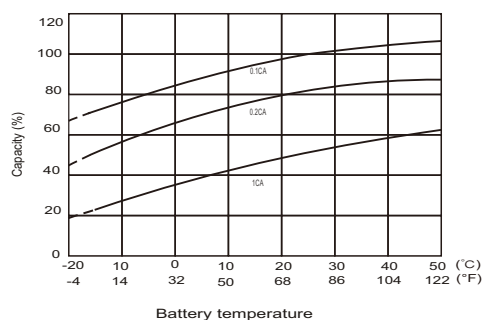
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

