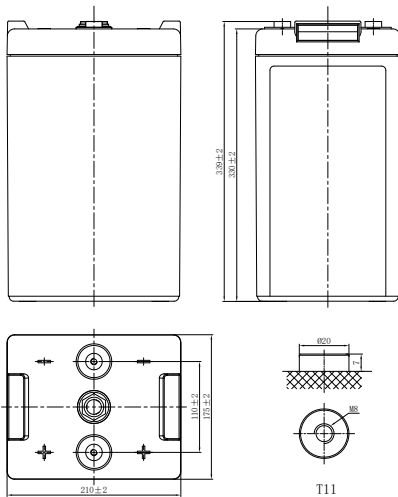


LPGS SERIES-HYBRID GEL BATTERY

LPGS2-400 (2V400Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	2V	
Nominal Capacity (25°C)	C ₁₀ , 1.80V/cell	400Ah
Dimension	Length	210mm (8.27inches)
	Width	175mm (6.89inches)
	Container Height	330mm (13.0inches)
	Total Height	339mm (13.3inches)
Approx Weight	25.7kg (56.7lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	5200A	
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	
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

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	400.0	360.0	297.8	236.1	190.9	118.8	95.5	75.4	64.8	55.5	44.7	38.1	20.3
1.80V/cell	454.4	400.8	319.6	248.4	200.3	125.3	100.4	78.8	68.1	58.0	46.5	40.0	20.7
1.75V/cell	499.2	432.0	338.4	261.2	201.7	130.5	100.8	81.4	68.6	59.4	47.3	40.3	21.0
1.70V/cell	532.8	462.1	355.1	269.7	202.8	134.3	101.8	83.2	69.1	60.4	48.1	40.6	21.3
1.67V/cell	547.3	462.1	363.7	277.0	208.3	136.4	102.5	84.1	69.5	60.9	48.4	40.9	21.3
1.60V/cell	578.5	494.0	379.0	286.8	216.1	140.1	103.6	85.6	70.6	61.9	49.1	41.5	21.6
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	756.8	684.2	569.3	454.1	368.7	230.6	185.8	147.5	127.4	109.4	88.5	75.7	40.2
1.80V/cell	847.6	752.8	605.5	474.0	384.5	242.1	194.1	153.5	133.1	113.9	91.7	79.2	41.1
1.75V/cell	918.1	802.2	635.2	494.7	385.9	251.3	195.3	158.2	133.6	116.2	93.2	79.7	41.7
1.70V/cell	968.7	849.6	661.4	508.1	386.7	257.6	195.9	161.1	134.1	118.1	94.5	80.3	42.1
1.67V/cell	985.7	842.6	671.7	518.7	394.9	260.5	196.5	162.5	134.7	118.8	95.0	80.7	42.2
1.60V/cell	1021.3	888.2	692.8	532.3	406.3	265.8	198.5	164.6	136.3	120.2	96.1	81.9	42.7

LPGS SERIES-HYBRID GEL BATTERY

LPGS2-400 (2V400Ah)



APPLICATIONS

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

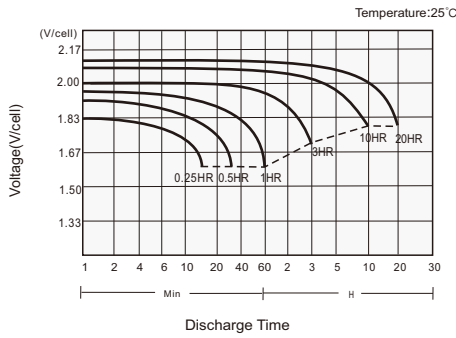
GENERAL FEATURES

- 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

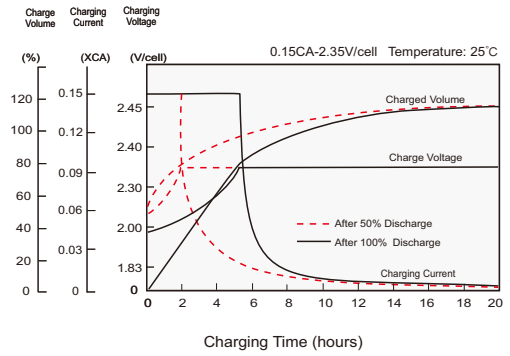
STANDARDS

- 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

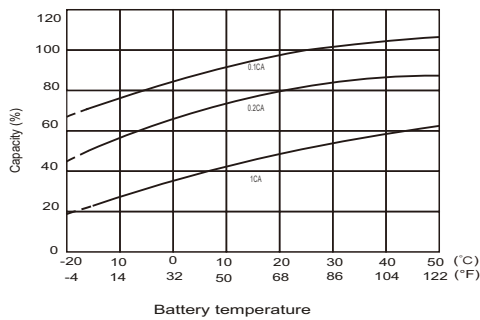
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

