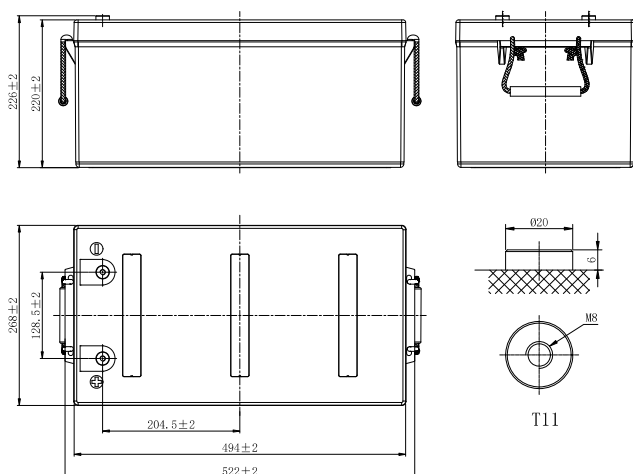


LPGS SERIES-HYBRID GEL BATTERY

LPGS12-250 (12V250Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C ₂₀ 1.75V/cell	250Ah
Dimension	Length	522mm (20.6inches)
	Width	268mm (10.6inches)
	Container Height	220mm (8.66inches)
	Total Height	226mm (8.90inches)
Approx Weight	75.5kg (166.4lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	4104A	
Internal Resistance (25°C)	Approx 2.9 mΩ (Fully charged)	
Operating Temp. Range	Discharge	-20~55°C (-4~131°F)
	Charge	0~40°C (32~104°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	1h	2h	3h	4h	5h	6h	8h	10h	20h	48h	72h	100h
1.90V/cell	110.6	69.8	53.3	43.6	36.8	31.6	24.6	20.3	10.9	4.84	3.29	2.38
1.85V/cell	132.3	78.1	58.5	47.5	40.0	34.5	26.9	22.1	11.9	5.23	3.56	2.60
1.80V/cell	143.0	82.4	61.3	49.3	41.4	35.5	27.8	22.8	12.2	5.39	3.69	2.69
1.75V/cell	150.3	86.0	63.3	50.8	42.3	36.3	28.3	23.3	12.5	5.48	3.74	2.74

Constant Power Discharge (Watts/cell) at 25°C (77°F)												
F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h	48h	72h	100h
1.90V/cell	216.6	137.5	105.9	86.9	73.8	63.5	49.4	40.5	21.6	9.68	6.56	4.75
1.85V/cell	256.4	152.6	115.1	93.9	79.6	68.5	53.5	44.1	23.8	10.5	7.14	5.23
1.80V/cell	274.5	159.6	120.0	94.4	81.9	70.4	55.1	45.3	24.4	10.8	7.36	5.38
1.75V/cell	287.5	166.0	123.5	99.4	83.3	71.6	55.9	46.0	24.9	11.0	7.48	5.48

LPGS SERIES-HYBRID GEL BATTERY

LPGS12-250 (12V250Ah)



APPLICATIONS

- Solar energy (wind energy) household system/ communication/ communication base station
- Movable energy storage system
- Solar traffic lights
- Solar, wind and solar power generation
- Emergency lighting system

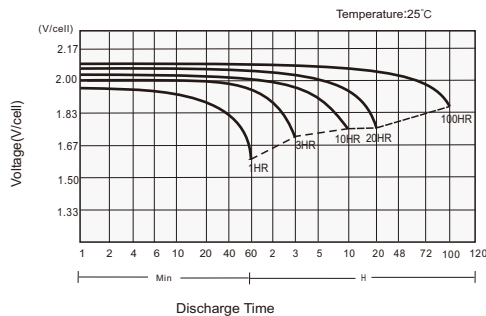
GENERAL FEATURES

- Proven AGM-GEL technology
- Excellent deep discharge recovery and cyclability
- Very low maintenance: no water addition
- Low self-discharge rate

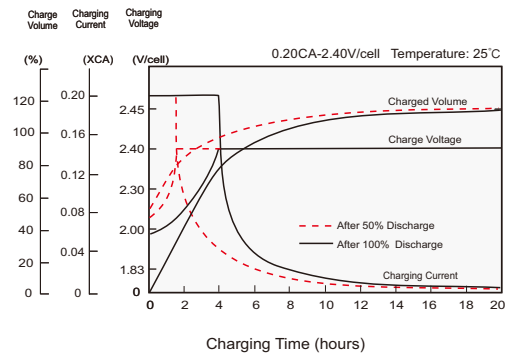
STANDARDS

- IEC60896 Certified
- Classified as "Long Life" according to Eurobat
- UL, CE Approved
- Manufactured in Leoch@IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

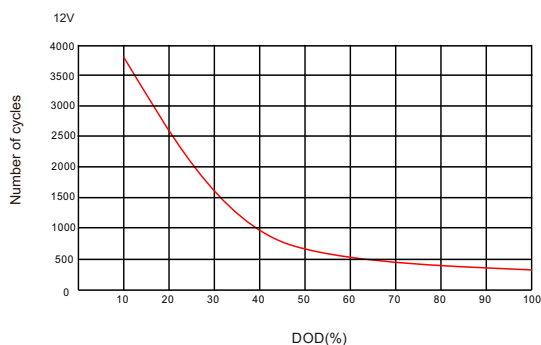
Discharge Characteristics



Charging Characteristics



Cycle Life in Relation to DoD



Self Discharge Characteristics

