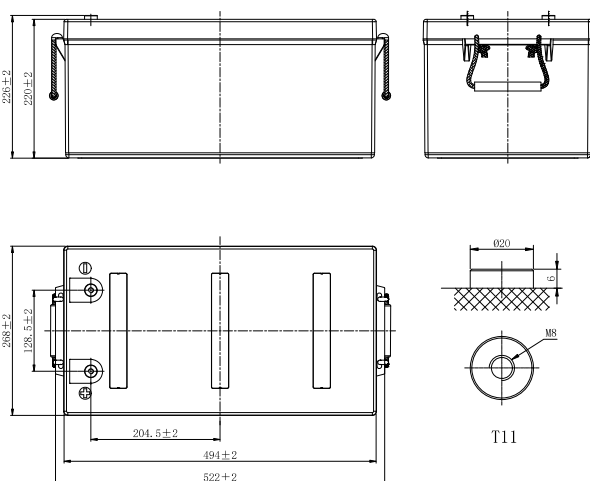


LPGS SERIES-HYBRID GEL BATTERY

LPGS12-230 (12V230Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C ₂₀ 1.75V/cell	230Ah
Dimension	Length	522mm (20.6inches)
	Width	268mm (10.6inches)
	Container Height	220mm (8.66inches)
	Total Height	226mm (8.90inches)
Approx Weight	73.6kg (162.3lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	3762A	
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	101.8	64.2	49.0	40.1	33.8	29.1	22.7	18.6	9.98	4.45	3.02	2.19
1.85V/cell	121.7	71.9	53.8	43.7	36.8	31.7	24.7	20.4	10.9	4.81	3.28	2.39
1.80V/cell	131.6	75.8	56.4	45.3	38.1	32.7	25.5	20.9	11.2	4.96	3.39	2.47
1.75V/cell	138.2	79.1	58.2	46.7	38.9	33.4	26.0	21.4	11.5	5.04	3.44	2.52

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	199.3	126.5	97.4	79.9	67.9	58.4	45.4	37.3	19.9	8.90	6.04	4.37
1.85V/cell	235.9	140.4	105.9	86.4	73.3	63.0	49.2	40.6	21.9	9.63	6.57	4.81
1.80V/cell	252.5	146.9	110.4	86.8	75.3	64.7	50.7	41.6	22.4	9.89	6.77	4.95
1.75V/cell	264.5	152.7	113.6	91.4	76.6	65.9	51.4	42.3	22.9	10.1	6.88	5.04

LPGS SERIES-HYBRID GEL BATTERY

LPGS12-230 (12V230Ah)



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

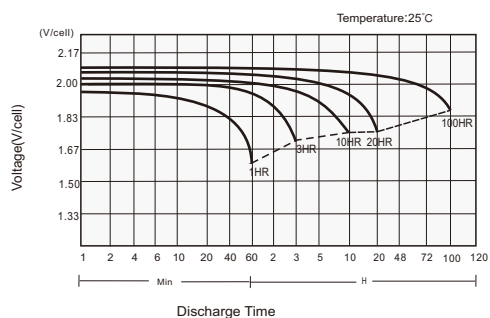
GENERAL FEATURES

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

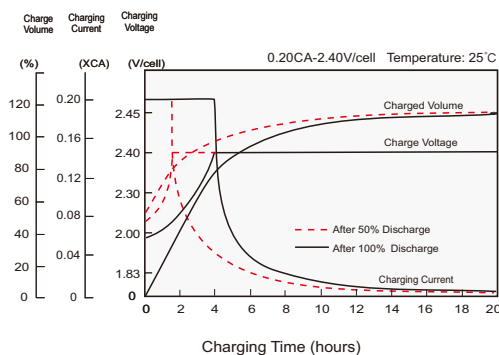
STANDARDS

- 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

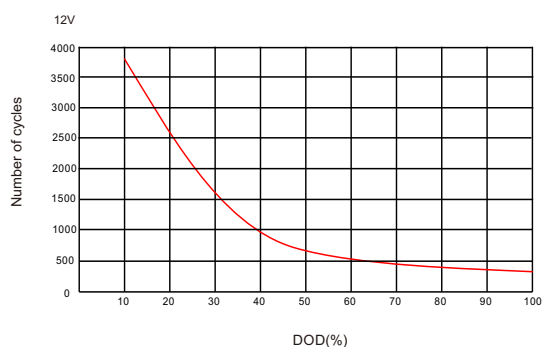
Discharge Characteristics



Charging Characteristics



Cycle Life in Relation to DoD



Self Discharge Characteristics

