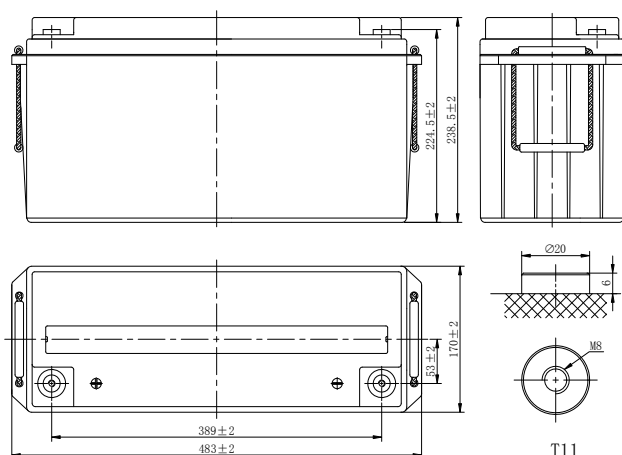


LPGS SERIES-HYBRID GEL BATTERY

LPGS12-154 (12V154Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C ₂₀ 1.75V/cell	154Ah
Dimension	Length	483mm (19.0inches)
	Width	170mm (6.69inches)
	Container Height	238.5mm (9.39inches)
	Total Height	238.5mm (9.39inches)
Approx Weight	44.9kg (99.0lbs)	
Terminal	T11(M8)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	2800A	
Internal Resistance (25°C)	Approx 3.5 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	68.1	43.0	32.8	26.9	22.6	19.5	15.2	12.5	6.68	2.98	2.03	1.46
1.85V/cell	81.5	48.1	36.0	29.3	24.6	21.3	16.6	13.6	7.33	3.22	2.19	1.60
1.80V/cell	88.1	50.7	37.7	30.3	25.5	21.9	17.1	14.0	7.52	3.32	2.27	1.66
1.75V/cell	92.6	53.0	39.0	31.3	26.0	22.3	17.4	14.3	7.70	3.37	2.30	1.69

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	133.4	84.7	65.2	53.5	45.4	39.1	30.4	24.9	13.3	5.96	4.04	2.93
1.85V/cell	157.9	94.0	70.9	57.8	49.0	42.2	33.0	27.2	14.6	6.44	4.40	3.22
1.80V/cell	169.1	98.3	73.9	58.1	50.4	43.4	34.0	27.9	15.0	6.62	4.54	3.31
1.75V/cell	177.1	102.3	76.1	61.2	51.3	44.1	34.4	28.3	15.3	6.75	4.60	3.37

LPGS SERIES-HYBRID GEL BATTERY

LPGS12-154 (12V154Ah)



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

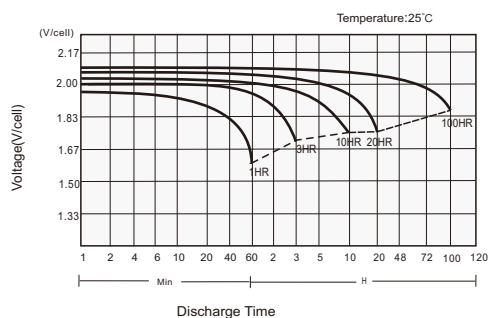
GENERAL FEATURES

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

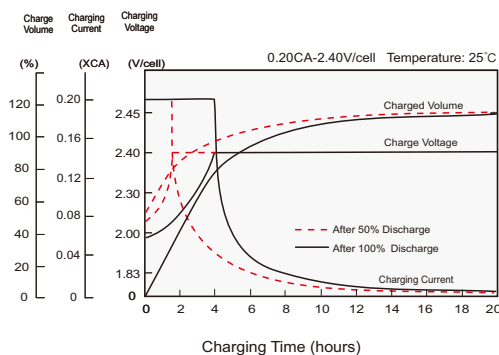
STANDARDS

- 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

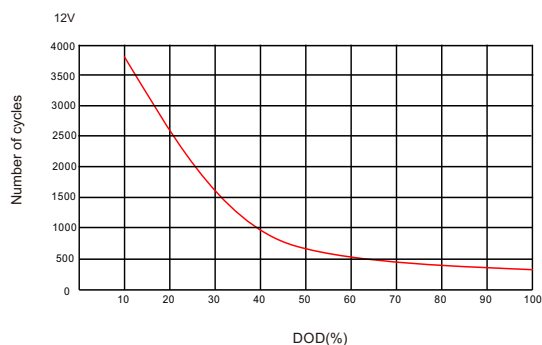
Discharge Characteristics



Charging Characteristics



Cycle Life in Relation to DoD



Self Discharge Characteristics

