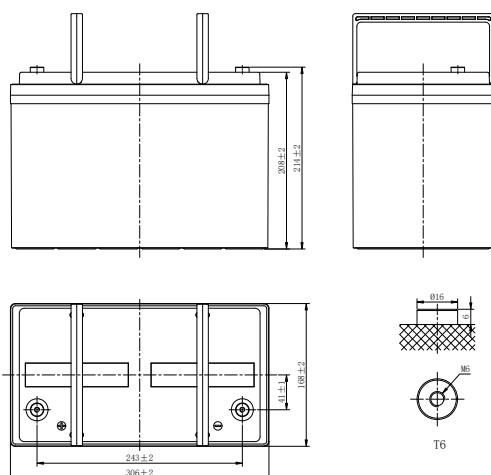


LPGS SERIES-HYBRID GEL BATTERY

LPGS12-88 (12V88Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C ₂₀ 1.75V/cell	88Ah
Dimension	Length	306mm (12.0inches)
	Width	168mm (6.61inches)
	Container Height	208mm (8.19inches)
	Total Height	214mm (8.43inches)
Approx Weight	26.8kg (59.1lbs)	
Terminal	T6(M6)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	1840A	
Internal Resistance (25°C)	Approx 6.2 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	38.9	24.6	18.7	15.4	12.9	11.1	8.67	7.13	3.82	1.70	1.16	0.836
1.85V/cell	46.6	27.5	20.6	16.7	14.1	12.1	9.46	7.79	4.19	1.84	1.25	0.915
1.80V/cell	50.3	29.0	21.6	17.3	14.6	12.5	9.77	8.01	4.29	1.90	1.30	0.946
1.75V/cell	52.9	30.3	22.3	17.9	14.9	12.8	9.94	8.18	4.40	1.93	1.32	0.964

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	76.3	48.4	37.3	30.6	26.0	22.4	17.4	14.3	7.61	3.41	2.31	1.67
1.85V/cell	90.2	53.7	40.5	33.0	28.0	24.1	18.8	15.5	8.36	3.68	2.51	1.84
1.80V/cell	96.6	56.2	42.2	33.2	28.8	24.8	19.4	15.9	8.58	3.78	2.59	1.89
1.75V/cell	101.2	58.4	43.5	35.0	29.3	25.2	19.7	16.2	8.76	3.85	2.63	1.93

LPGS SERIES-HYBRID GEL BATTERY

LPGS12-88 (12V88Ah)



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

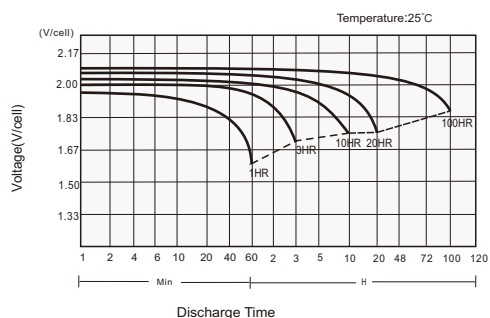
GENERAL FEATURES

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

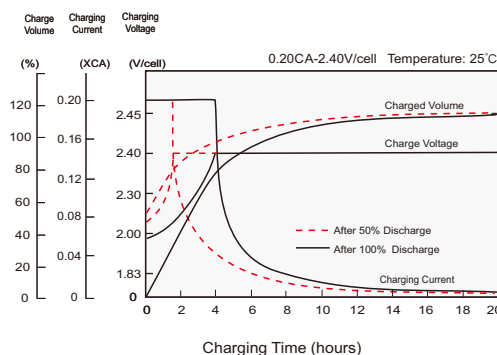
STANDARDS

- 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

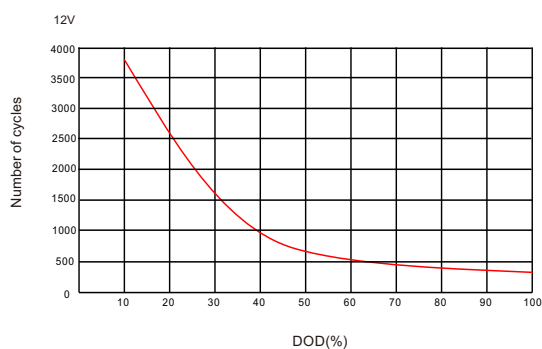
Discharge Characteristics



Charging Characteristics



Cycle Life in Relation to DoD



Self Discharge Characteristics

