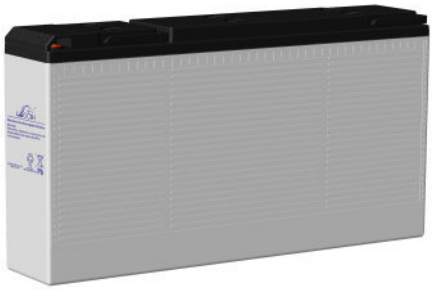
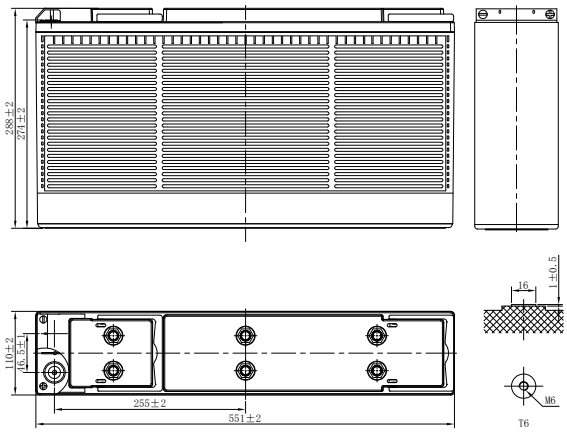
LPFG SERIES-FRONT TERMINAL GEL

LPFG12-150 (12V138Ah)

LEOCH BATTERY





CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (25˚C)	C_{20},1.80V/cell	138Ah
Dimension	Length	551mm (21.7inches)
	Width	110mm (4.33inches)
	Container Height	288mm (11.3inches)
	Total Height	288mm (11.3inches)
Approx Weight		46.7kg (103.0lbs)
Terminal		T6(M6)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		1820A
Internal Resistance (25˚C)		Approx 5.5 mΩ (Fully charged)
Operating Temp. Range	Discharge	-20~60˚C (-4~140°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
	2.23-2.27V/cell	2.35-2.40V/cell
Temp. Coeffcient	-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	⩽2.5% per month at 25°C (77°F). LPFG series batteries may be stored up to 9 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	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	113.4	89.0	67.9	56.9	39.9	30.4	25.2	21.8	18.7	15.0	12.4	6.63
1.80V/cell	129.9	99.5	74.9	62.8	43.2	32.6	26.7	22.9	19.7	15.7	13.0	6.90
1.75V/cell	146.0	109.4	81.0	67.2	45.8	34.5	28.0	23.8	20.4	16.2	13.3	7.05
1.70V/cell	157.3	117.2	86.0	71.1	48.6	35.9	28.9	24.5	21.1	16.7	13.6	7.14
1.67V/cell	163.7	121.8	89.0	73.7	49.8	37.0	29.6	25.0	21.4	16.9	13.8	7.21
1.60V/cell	177.4	130.3	95.6	78.3	51.8	38.5	30.7	25.8	21.9	17.2	14.0	7.32
Constant Power Discharge (Watts/cell) at 25°C (77°F)												
F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	217.1	171.6	131.7	110.7	78.1	59.6	49.6	43.0	37.1	29.8	24.8	13.2
1.80V/cell	245.4	189.9	143.9	121.6	84.0	63.7	52.4	45.0	38.8	31.1	25.9	13.7
1.75V/cell	272.8	206.6	154.2	129.5	88.8	67.1	54.7	46.5	40.0	32.0	26.4	14.0
1.70V/cell	290.7	219.7	163.1	136.4	93.7	69.7	56.3	47.9	41.4	32.9	27.0	14.2
1.67V/cell	299.1	225.2	167.4	140.5	95.7	71.6	57.5	48.7	41.9	33.4	27.3	14.3
1.60V/cell	320.6	239.6	178.9	148.4	99.0	74.1	59.5	50.0	42.8	33.9	27.7	14.5

LPFG SERIES-FRONT TERMINAL GEL

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LEOCH BATTERY

APPLICATIONS

- Communication system
- Power system of special network or local area network
- UPS, standby power supply
- Power station systems
- Marine systems

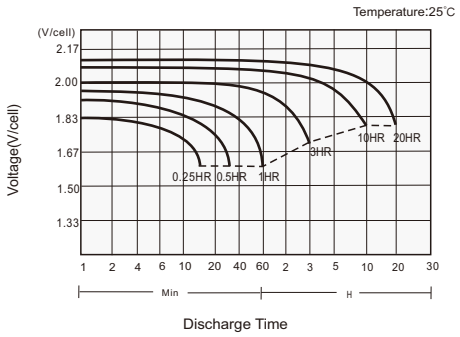
GENERAL FEATURES

- 12 years design life (25℃)
- Gelled electrolyte for superior thermal management, long float life
- Efficient gas recombination decreases gassing/water and extends battery life
- Robust design - resilient in harsh conditions
- Proof against deep discharge - greater long-term energy delivery and cycle life
- Front access design for easy installation and maintenance

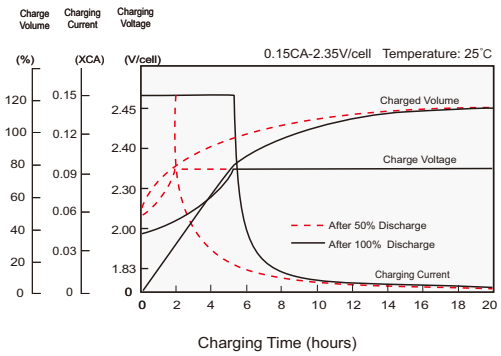
STANDARDS

- IEC60896 Certified
- Classified as"Long Life" according to Eurobat
- UL,CE Approved
- Manufactured in Leoch®IATF16949, ISO 45001,ISO 9001 and ISO 14001 certified production facilities

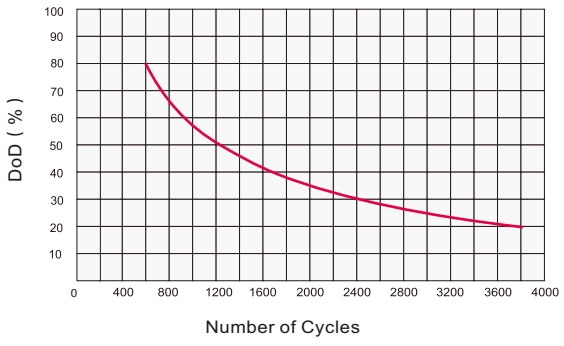
Discharge Characteristics



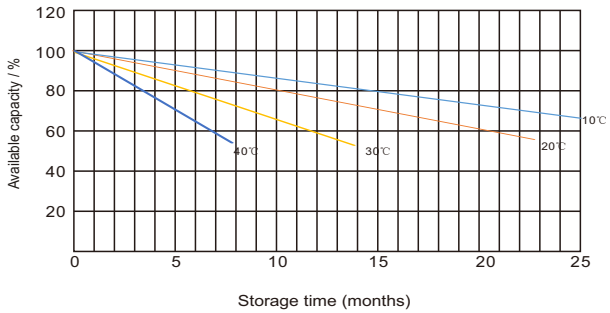
Charging Characteristics



Cycle Life in Relation to DoD



Self Discharge Characteristics



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