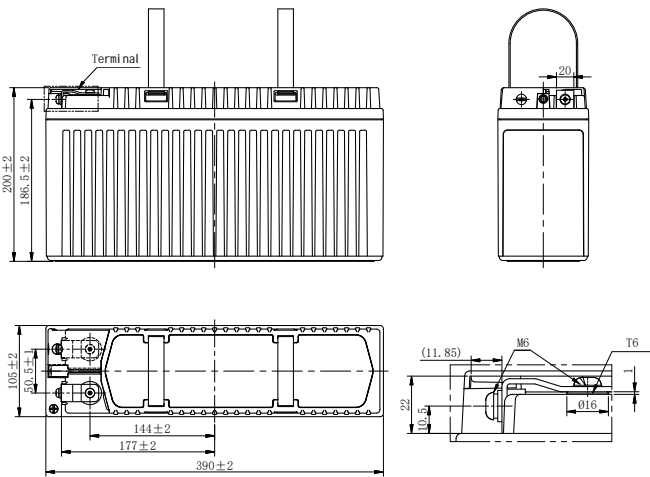
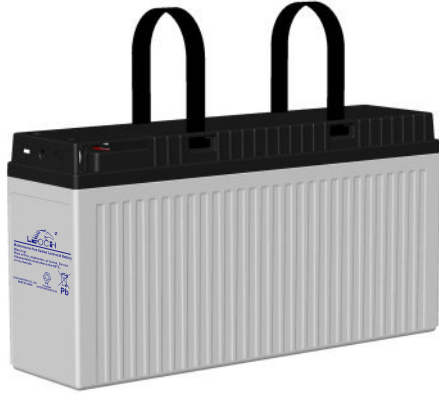


LPFGS SERIES-FRONT TERMINAL HYBRID GEL

LPFG12-50HS (12V50Ah)



CHARACTERISTICS

Item	Specifications	
Rated Voltage	12V	
Nominal Capacity (25°C)	C ₁₀ : 1.80V/cell	50Ah
Dimension	Length	390mm (15.4inches)
	Width	105mm (4.13inches)
	Container Height	200mm (7.87inches)
	Total Height	200mm (7.87inches)
Approx Weight	18.5kg (40.8lbs)	
Terminal	T6(M6)	
Container Material	ABS (UL94 HB or V-0 optional)	
Short-circuit current	1150A	
Internal Resistance (25°C)	Approx 8 mΩ (Fully charged)	
Operating Temp. Range	Discharge	-20~55°C (-4~131°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
	2.25-2.30V/cell	2.35-2.40V/cell
Temp. Coefficient	-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	≤3% per month at 25°C (77°F). LPFGS 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	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	64.7	54.4	41.8	31.2	26.4	15.8	11.9	9.50	7.95	6.90	5.60	4.68	2.51
1.80V/cell	75.3	62.6	47.3	34.9	29.2	17.2	12.9	10.1	8.55	7.40	6.00	5.00	2.64
1.75V/cell	79.5	65.7	49.4	36.3	30.3	17.7	13.1	10.4	8.75	7.55	6.09	5.04	2.65
1.70V/cell	84.1	69.2	51.5	37.6	31.4	18.3	13.3	10.5	8.83	7.65	6.13	5.09	2.68
1.67V/cell	86.7	71.2	52.8	38.5	32.0	18.5	13.4	10.6	8.91	7.74	6.19	5.12	2.70
1.60V/cell	93.0	75.7	55.8	40.5	32.8	18.6	13.5	10.7	8.98	7.82	6.23	5.16	2.72
Constant Power Discharge (Watts/cell) at 25°C (77°F)													
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	124.3	104.7	80.7	60.5	51.2	30.9	23.4	18.6	15.6	13.6	11.1	9.30	4.99
1.80V/cell	143.0	119.5	90.5	67.1	56.3	33.5	25.2	20.1	16.8	14.5	11.8	9.90	5.26
1.75V/cell	149.7	124.3	93.8	69.3	58.0	34.3	25.7	20.5	17.1	14.8	12.0	10.0	5.33
1.70V/cell	156.5	129.5	97.1	71.4	59.6	35.2	26.0	20.7	17.5	15.1	12.2	10.2	5.38
1.67V/cell	161.8	132.3	99.0	72.6	60.6	35.6	26.3	20.9	17.6	15.3	12.4	10.3	5.40
1.60V/cell	168.8	138.6	103.3	75.5	63.0	36.5	26.5	21.0	17.7	15.5	12.5	10.4	5.43

LPFGS SERIES-FRONT TERMINAL HYBRID GEL

LPFG12-50HS (12V50Ah)



APPLICATIONS

- For standard power cabinet
- Network connection equipment of communication system
- Power system of special network of local area network
- Power station systems
- UPS

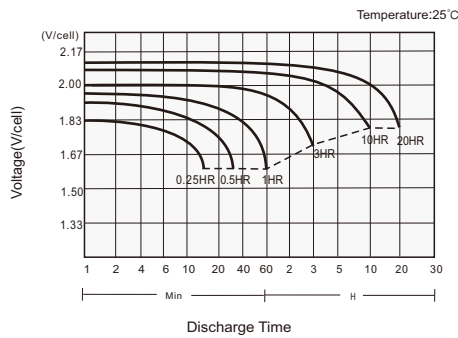
GENERAL FEATURES

- 12 years design life (25°C)
- Proven AGM-GEL technology
- Excellent deep discharge recovery and cyclability
- Very low maintenance: no water addition
- Low self-discharge rate
- Front access design for easy installation and maintenance

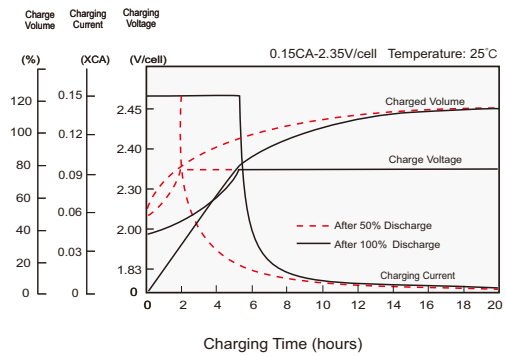
STANDARDS

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Approved
- Manufactured in Leoch@IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

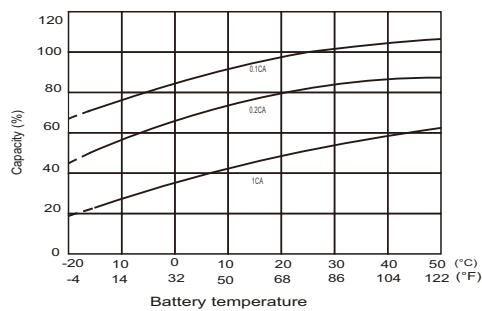
Discharge Characteristics



Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics

