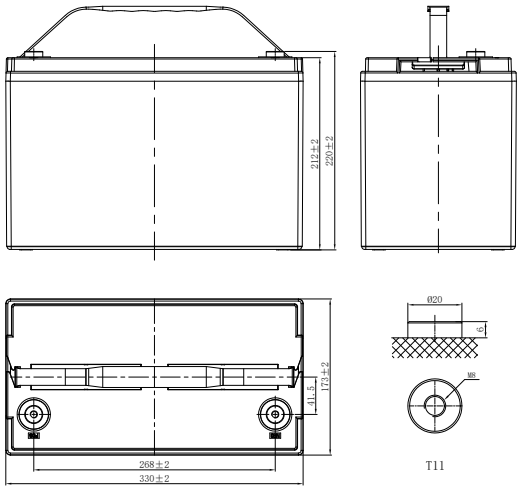
LPGS SERIES-HYBRID GEL BATTERY

LPGS12-100 (12V100Ah)

LEOCH BATTERY



CHARACTERISTICS

Item		Specifications
Rated Voltage		12V
Nominal Capacity (25˚C)	C_{10},1.80V/cell	100Ah
Dimension	Length	330mm (13.0inches)
	Width	173mm (6.81inches)
	Container Height	212mm (8.35inches)
	Total Height	220mm (8.66inches)
Approx Weight		28.2kg (62.2lbs)
Terminal		T11(M8)
Container Material		ABS (UL94 HB or V-0 optional)
Short-circuit current		2000.0A
Internal Resistance (25˚C)		Approx 5.5 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. 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	≤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	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	98.1	82.9	66.6	52.0	45.0	29.6	23.2	18.8	15.8	13.8	11.1	9.28	5.00
1.80V/cell	116.8	96.5	76.7	59.1	50.0	32.1	25.0	20.1	17.0	14.7	11.8	10.0	5.15
1.75V/cell	130.2	105.9	81.8	62.4	52.9	33.7	25.8	20.7	17.4	15.1	12.0	10.1	5.20
1.70V/cell	140.6	112.6	86.3	65.6	55.2	35.3	26.8	21.3	17.9	15.5	12.1	10.2	5.30
1.67V/cell	148.1	118.5	90.4	67.5	57.2	36.3	27.7	21.9	18.3	15.8	12.3	10.3	5.35
1.60V/cell	159.7	127.2	96.0	71.5	59.9	37.6	28.7	22.4	18.6	16.1	12.5	10.4	5.40
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	184.5	157.3	127.7	100.5	87.1	57.6	45.4	36.9	31.1	27.0	21.9	18.4	9.94
1.80V/cell	216.9	180.7	145.2	113.2	96.4	62.2	48.5	39.1	33.3	28.9	23.3	19.8	10.2
1.75V/cell	238.6	196.3	153.5	118.7	101.5	65.0	50.1	40.2	34.0	29.7	23.6	20.0	10.3
1.70V/cell	253.7	206.9	160.8	124.0	105.4	68.0	51.7	41.4	34.8	30.2	23.9	20.1	10.5
1.67V/cell	264.5	215.6	166.8	126.7	108.5	69.5	53.5	42.4	35.5	30.8	24.2	20.3	10.6
1.60V/cell	280.6	229.0	175.8	133.0	113.2	71.7	55.0	43.2	36.0	31.4	24.5	20.6	10.7

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APPLICATIONS

- UPS
- Wind,solar and renewable energy
- Street lamp,CATV,oil and gas
- Poor grid reliability back-up applications
- Hybrid telecom remote base stations
- All extreme environment off-grid applications

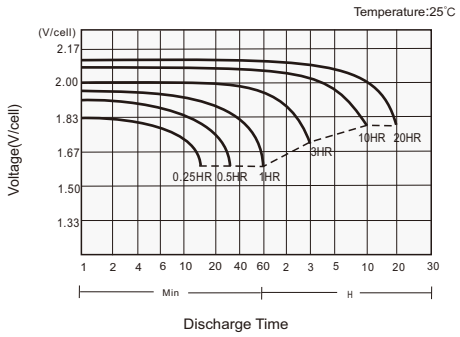
GENERAL FEATURES

- 12 years design life (25℃)
- Proven AGM-GEL technology
- Excellent deep discharge recovery and cyclability
- Very low maintenance: no water addition
- Low self-discharge rate

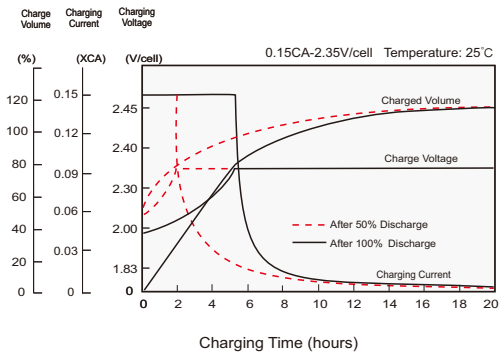
STANDARDS

- 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

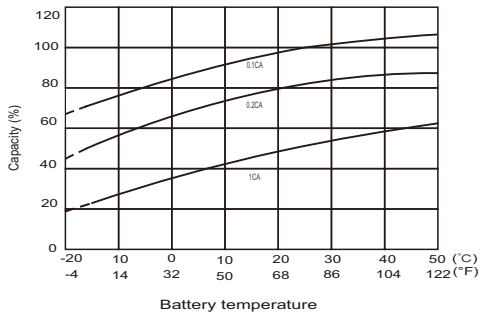
Discharge Characteristics



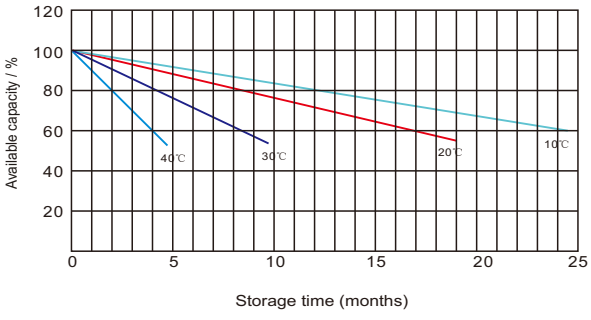
Charging Characteristics



Effects of Temperature on Capacity



Self Discharge Characteristics



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