

LPGS SERIES-TRUE Hybrid GEL Battery

LPGS2-1500 (2V1500AH)

Specification

Nominal Voltage	2V	
Nominal Capacity(10HR)	1500.0AH	
Dimensions	Length	403±3mm (15.87 inches)
	Width	354±3mm (13.94 inches)
	Container Height	339±3mm (12.95 inches)
	Total Height (with Terminal)	339±3mm (13.35 inches)
	Approx Weight	Approx 96.6 kg (213.0 lbs)
Terminal	T11	
Container Material	ABS	
Rated Capacity	1556.0 AH/77.8A	(20hr, 1.80V/cell, 25°C/77°F)
	1500.0 AH/150.0A	(10hr, 1.80V/cell, 25°C/77°F)
	1286.5 AH/257.3A	(5hr, 1.75V/cell, 25°C/77°F)
	1134.3 AH/378.1A	(3hr, 1.75V/cell, 25°C/77°F)
	810.3 AH/810.3A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	10500A (5s)	
Internal Resistance	Approx 0.42mΩ	
Operating Temp. Range	Discharge	-15~50°C (5~122°F)
	Charge	0~40°C (32~104°F)
	Storage	-15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 375.0A. Voltage 2.4V~2.5V at 25°C(77°F)Temp. Coefficient -5mV/°C	
	Standby Use No limit on Initial Charging Current Voltage 2.25V~2.3V at 25°C(77°F)Temp. Coefficient -3mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	LPGS series batteries may be stored for 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.	



Applications

- ◆ Tele-communication central station (wired or cellular)
- ◆ Power system communication, military communication, etc.
- ◆ Network communication including: data transmission, television signal transmission, etc.
- ◆ Uninterruptable Power System (UPS- for Telecom)



Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V(Time)	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	1701.1	1500.1	1350.1	1116.7	885.6	715.8	445.4	358.0	282.8	243.1	208.3	167.7	143.0	76.0
1.80V/cell	2011.2	1704.0	1503.1	1198.4	931.6	751.0	469.9	376.5	295.4	255.3	217.5	174.3	150.0	77.8
1.75V/cell	2268.1	1872.1	1620.1	1268.9	979.6	756.3	489.3	378.1	305.3	257.3	222.8	177.5	151.2	78.8
1.70V/cell	2434.7	1998.1	1732.7	1331.6	1011.3	760.5	503.7	381.8	312.1	259.0	226.5	180.3	152.3	79.8
1.67V/cell	2525.2	2052.3	1732.7	1364.0	1038.8	781.0	511.3	384.5	315.4	260.7	228.5	181.5	153.3	80.0
1.60V/cell	2718.5	2169.3	1852.5	1421.1	1075.4	810.3	525.2	388.5	320.9	264.8	232.0	184.0	155.7	81.0

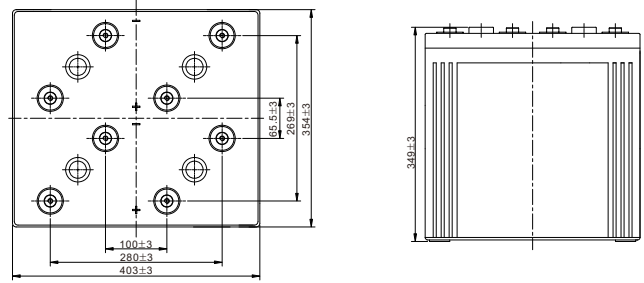
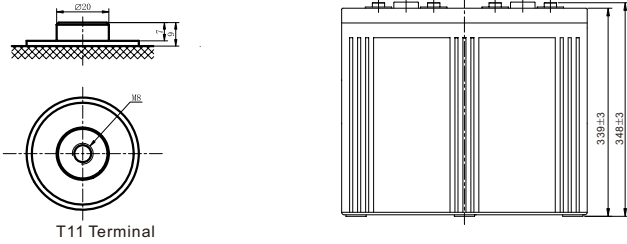
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V(Time)	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	3197.9	2838.1	2565.8	2134.7	1703.0	1382.5	864.8	696.9	553.2	477.8	410.2	332.0	283.7	150.8
1.80V/cell	3720.7	3178.4	2823.0	2270.6	1777.5	1442.0	908.0	728.0	575.7	499.2	427.0	343.8	297.0	154.0
1.75V/cell	4130.0	3442.7	3008.1	2381.9	1855.3	1447.2	942.3	732.3	593.4	500.9	435.8	349.5	299.0	156.3
1.70V/cell	4365.9	3632.8	3186.1	2480.2	1905.2	1450.2	965.8	734.7	604.2	503.0	442.8	354.5	301.0	157.8
1.67V/cell	4481.2	3696.4	3159.7	2519.1	1945.1	1480.7	976.9	736.9	609.3	505.0	445.5	356.3	302.5	158.3
1.60V/cell	4707.9	3829.8	3330.9	2598.0	1996.1	1523.5	996.6	744.3	617.4	511.0	450.8	360.3	307.0	160.0

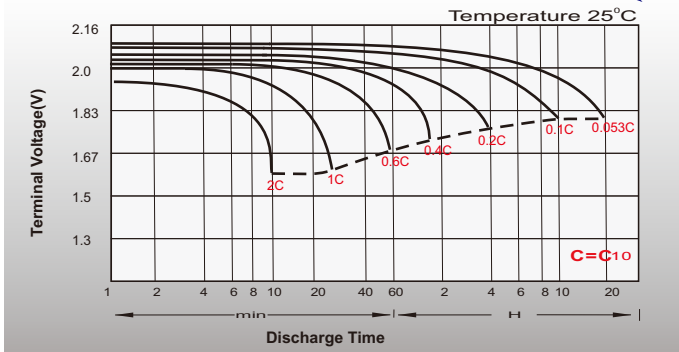
Specifications subject to change without notice.

Dimensions

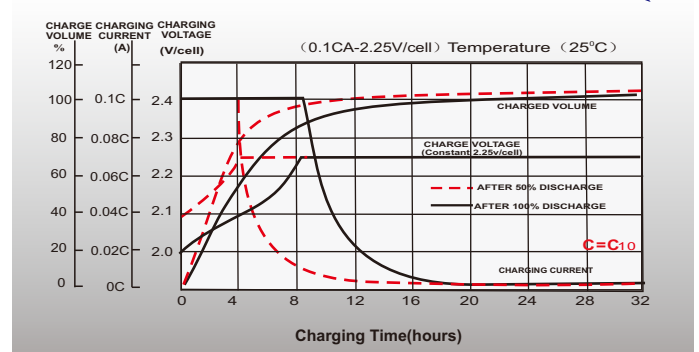
T11 Terminal



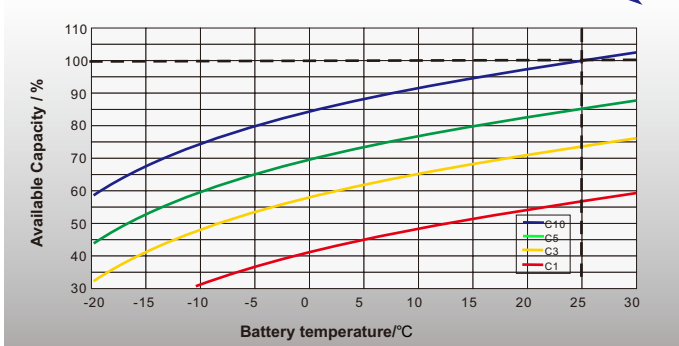
Discharge Characteristics



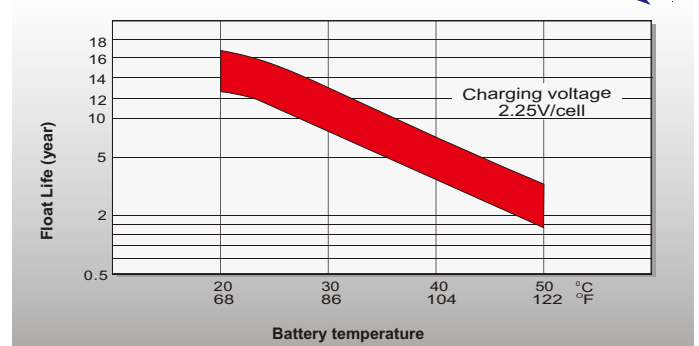
Float Charging Characteristics



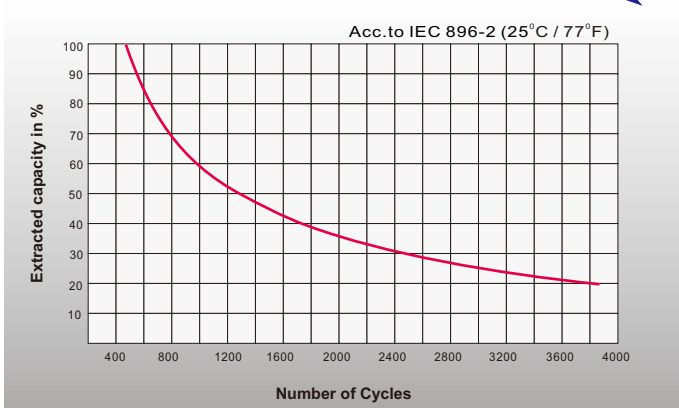
Temperature Effects in Relation to Battery Capacity



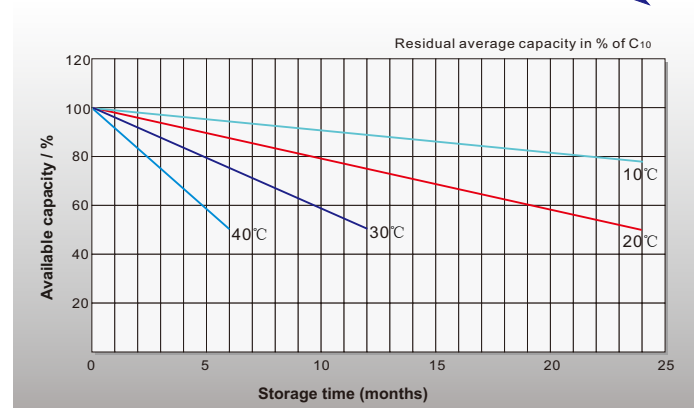
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



General Relation of Capacity VS. Storage Time



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