



GEL LPN-GL 12V - 200Ah

JAPAN

12V 200Ah



Characteristics

- The batteries are manufactured using GEL technology.
- Batteries of this series are able to withstand long discharge, cyclic discharge, deep discharge and high current discharge.
- The resource of charge/discharge cycles in this series of batteries is significantly higher than that of AGM batteries.
- They don't require replenishment or replacement of the electrolyte.
- They can work in any position.
- Batteries of this series can be installed in living spaces, because their manufacturing technology guarantees the absence of harmful fumes.
- In practical use these batteries show stable results when working in conditions of low (-40°C) and high (+50°C) ambient temperatures.

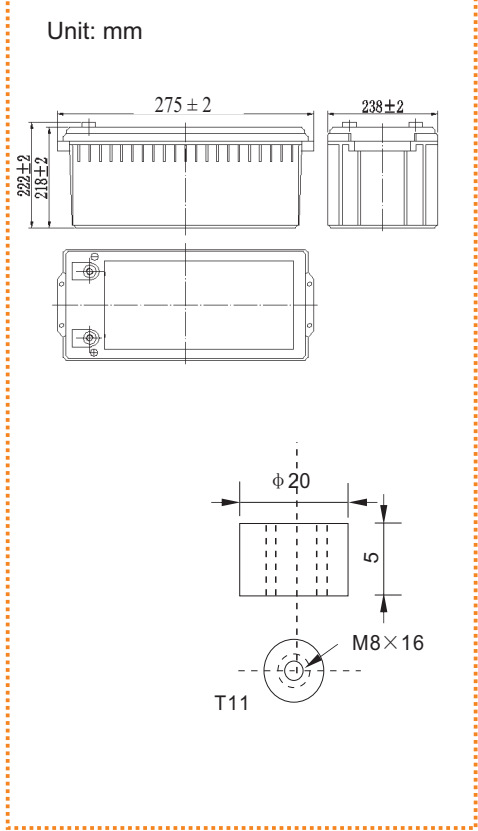


Application

Technical data

Voltage	12 V	
Capacity	200 Ah	
Internal resistance	3,3 mΩ	
Capacity at a given temperature	-15°C	65 %
	0°C	85 %
	+25°C	100 %
Self discharge (at 25 °C)	3 months	91 %
	6 months	82 %
	12 months	64 %
Recommended operating temperature	25°C ± 3°C	
Operating temperature range	Discharging	-20°C ~ +50°C
	Charging	-20°C ~ +50°C
	Storage	-25°C ~ +50°C
Charging voltage (25 °C)	Buffer work	13.5 V - 13.8 V
	Cyclical work	14.4 V - 14.7 V
Maximum charge current	40 A	
Maximum discharge current	1400 A (5 s)	
Predicted lifetime (25 °C), years	7-8	
Terminal type	T11	
Weight, kg	62,5	
Dimensions (+/- 2%) (length * width * height), mm	522*238*221	

Dimensions



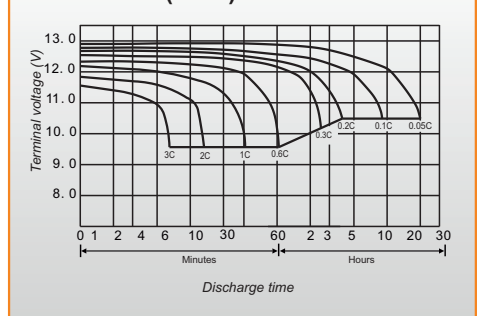
Constant current discharge characteristics Unit: A (25°C, 77°F)

F.V/Time	15 min	30 min	60 min	2 h	3 h	4 h	5 h	8 h	10 h	20 h
1.60V/cell	194	120	73.1	52.0	40.8	34.7	30.6	24.5	20.4	10.8
1.65V/cell	190	118	72.6	51.7	40.6	34.5	30.4	24.3	20.3	10.8
1.70V/cell	184	115	72.0	51.4	40.3	34.2	30.2	24.2	20.3	10.7
1.75V/cell	180	112	70.9	51.0	40.0	34.0	30.0	24.0	20.1	10.7
1.80V/cell	173	108	69.1	50.0	38.8	33.0	29.1	23.3	20.0	10.6

Constant power discharge characteristics Unit: W (25°C, 77°F)

F.V/Time	15 min	30 min	60 min	2 h	3 h	4 h	5 h	8 h	10 h	20 h
1.60V/cell	2177	1368	846	612	480	410	362	291	243	129
1.65V/cell	2133	1347	841	608	477	408	360	289	243	129
1.70V/cell	2068	1313	834	604	474	405	357	287	242	129
1.75V/cell	2018	1272	821	600	470	402	355	285	240	128
1.80V/cell	1944	1231	800	588	456	390	344	277	239	127

DISCHARGE TIME VS. DISCHARGE CURRENT (25°C)



Note: The above characteristics data was obtained within three charge or discharge cycles.