

12V- 33Ah

enersafe
A brand of **legrand**

 Línea **BATERIAS GEL**

Specification

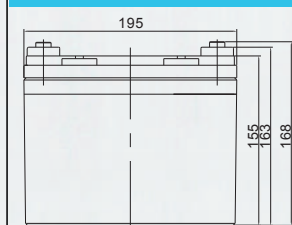
Cells Per Unit	6
Voltage Per Unit	12V
Capacity	33Ah@20hour-rate to 1.75V per cell @25
Weight	Approx. 9.6 Kg (Tolerance± 5%)
Internal Resistance	≤ 19.5 mΩ (Full Charge Condition @25)
Terminal	Default F11(M6), F7(M8) Optional
Max. Discharge Current	330A (5 sec)
Design Life	15 years
Max. Charging Current	6.6 A
Reference Capacity	C ₃ 21.8Ah C ₅ 24.8Ah C ₁₀ 29.0Ah C ₂₀ 33.0Ah
Float Charging Voltage	13.38 V~13.50 V @ 25 Temperature Compensation: -3mV/ /Cell
Cycle Use Voltage	14.20 V~14.40 V @ 25 Temperature Compensation: -4mV/ /Cell
Operating Temperature Range	Discharge: -40 ~60 Charge: 0 ~50 Storage: -40 ~60
Normal Operating Temperature Range	25 ± 5
Self Discharge	Enersafe Valve Regulated Lead Acid (VRLA) GEL batteries can be stored for up to 6 months at 25 and then recharging is recommended. Monthly Self-discharge ratio is less than 2% at 25 . Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.

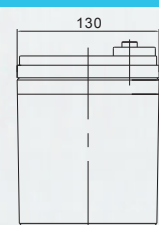


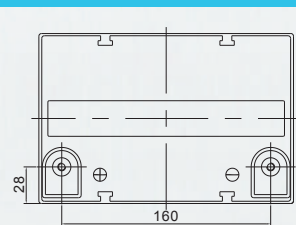
DG (Deep Cycle GEL) series is pure GEL battery with 15 years floating design life , it is ideal for standby or frequent cyclic discharge applications under extreme environments. By using strong grids, high purity lead and patented GEL electrolyte, the DG series offers excellent recovery capability after deep discharge under frequent cyclic discharge use, and it can offers 2 times cyclic life than the standard series. It is suitable for solar & wind system, marine, deep discharge UPS etc.

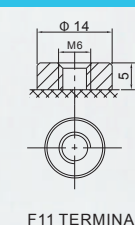


Dimensions









Length	195±2mm (7.68 inches)
Width	130±2mm (5.12 inches)
Height	155±2mm (6.10 inches)
Total Height	168±2mm (6.61 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

F11 TERMINAL

Unit: mm

Constant Current Discharge Characteristics : A(25)

F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	54.0	43.8	28.7	17.9	10.9	8.21	6.55	5.49	3.71	3.06	1.72
1.65V	51.1	41.9	27.6	17.3	10.6	7.96	6.37	5.35	3.67	3.03	1.69
1.70V	47.0	39.2	26.4	16.7	10.3	7.74	6.20	5.21	3.62	2.98	1.67
1.75V	43.0	36.5	25.2	16.1	9.89	7.51	6.04	5.08	3.57	2.94	1.65
1.80V	38.9	33.7	24.1	15.5	9.54	7.28	5.87	4.95	3.51	2.90	1.63
1.85V	31.8	28.0	20.8	13.9	8.74	6.73	5.45	4.62	3.29	2.73	1.55

Constant Power Discharge Characteristics : W/Cell (25)

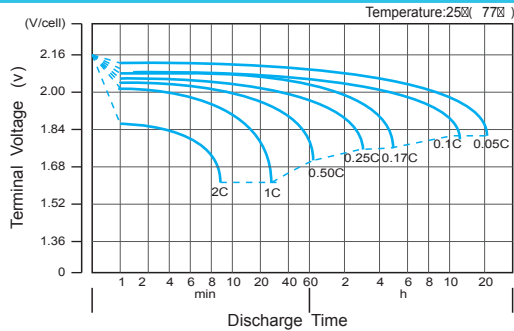
F.V/Time	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	91.8	76.6	52.2	33.7	20.8	15.7	12.6	10.6	7.25	6.02	3.38
1.65V	87.4	73.6	50.6	32.8	20.2	15.3	12.3	10.4	7.17	5.95	3.34
1.70V	82.9	70.6	48.9	31.8	19.6	14.9	12.0	10.1	7.09	5.88	3.30
1.75V	77.3	66.7	47.2	30.9	19.0	14.5	11.7	9.90	7.01	5.80	3.26
1.80V	71.2	62.5	45.6	29.9	18.4	14.1	11.4	9.68	6.90	5.74	3.23
1.85V	59.2	52.6	39.7	26.9	17.0	13.1	10.7	9.06	6.50	5.41	3.07

12V- 33Ah

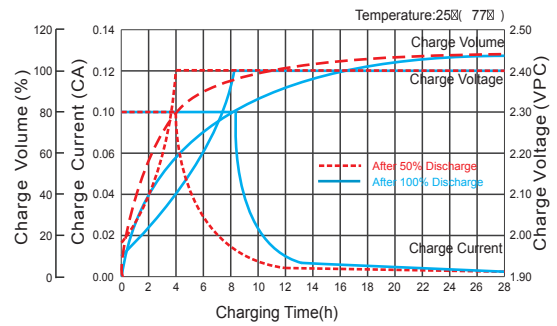
enersafe
A brand of **legrand**

 **Linea BATERIAS GEL**

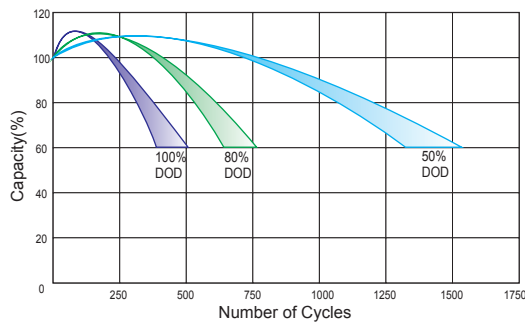
Discharge Characteristics Curve



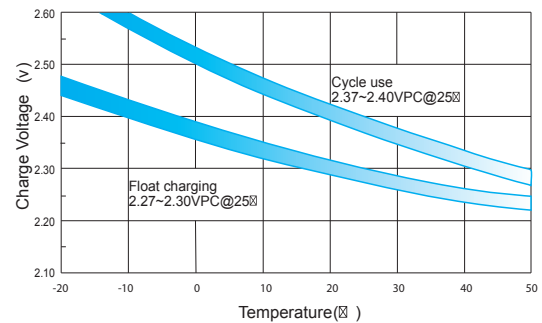
Charge Characteristic Curve for Cycle Use(IU)



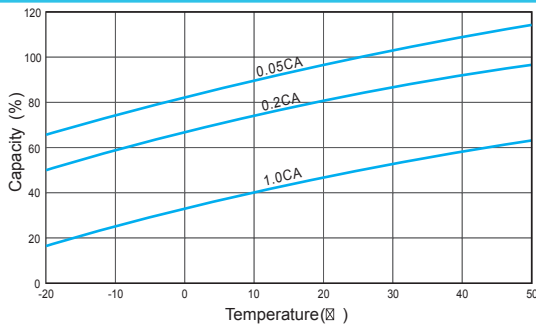
Cycle Life in Relation to Depth of Discharge



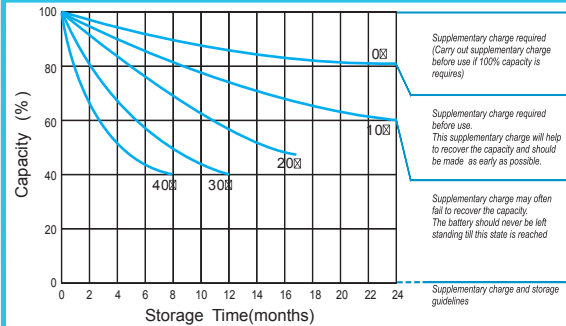
Relationship Between Charging Voltage and Temperature



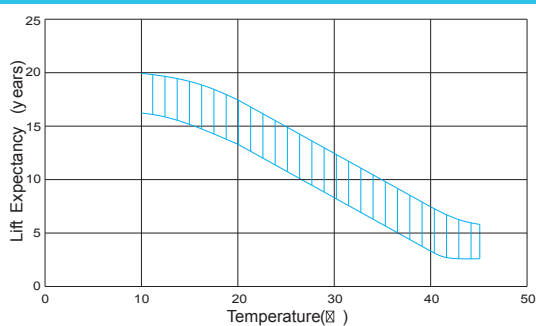
Temperature Effects on Capacity



Storage Characteristics



Effect of Temperature on Long Term Life



Relationship of OCV And State of Charge(20 °C)

