



# LTG12-90

Valve-regulated lead-acid battery

# DEEP CYCLE GEL SERIES

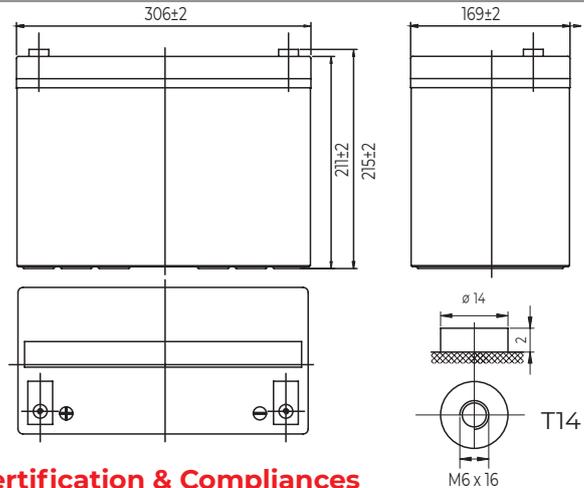
## Characteristics

Nominal voltage	12V (6 cell per unit)	
Nominal capacity at 10 hours rate/10.8V (25°C)	90Ah	
Capacity (25°C)	20 Hours rate/10.8V	95.4Ah
	5 Hours rate/10.8V	74Ah
Terminal type	T14	
Torque	5.1±0.6N.m	
Approx. internal resistance (25°C)	5.5 mΩ	
Dimensions	Length	306±2mm (12.05inch)
	Width	169±2mm (6.65inch)
	Height	211±2mm (8.31inch)
	Total height	215±2mm (8.46inch)
Design Life (stand-by)	JIS at 25°C	12 years
	Eurobat at 20°C	10/12 years
Weight	28.50kg (62.83lbs)±3%	
Nominal operating temperature	25°C±3 (77±5°F)	
Operating temperature range	Discharge	-15°C~50°C (5°F~122°F)
	Charge	-10°C~50°C (14°F~122°F)
	Storage	-20°C~50°C (-4°F~122°F)
Float charging voltage at 25°C	13.5V~13.8V	
Cyclic charging voltage at 25°C	14.5V~14.7V	
Temperature compensation	Float charge	-18 mV/°C/Block
	Cycle charge	-30 mV/°C/Block
Max. charging current (A)	18A	
Max. discharge current for 5 seconds	800A	
Self discharge rate (25°C)	≤3%/month	
Battery container ABS UL94-HB	V-0 optional	

## Overview

Leaftron AGM GEL Series are manufactured following the highest demands in the deep cycle and renew-able energy applications. The batteries use colloidal or foamed silica gel to immobilize the electrolyte, which further enhances the cycling stability. Available in top and front terminal types.

## Dimensions & Terminal Type (mm)



## Certification & Compliances



Compliant to: EUROBAT, RoHS, WEEE's and Reach.  
Manufactured according to IEC 60896-21 / 22

## Construction

Component	Positive Plate	Negative plate	Container	Separator	Electrolyte	Safety valve	Terminal
Raw material	Lead dioxide	Lead	ABS (V-0 opt.)	AGM	Sulfuric Acid Gel	Rubber	Copper

## Constant current discharge characteristics at 25°C

(Ampere/battery)

F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	176	144	87.3	54.0	32.9	23.4	18.4	15.6	11.0	9.16	4.86
1.67V/cell	170	141	85.6	53.2	32.7	23.3	18.3	15.5	11.0	9.14	4.85
1.70V/cell	163	135	82.9	51.8	32.4	23.1	18.1	15.4	10.9	9.12	4.83
1.75V/cell	156	131	80.9	50.2	31.9	23.0	18.0	15.3	10.8	9.06	4.80
1.80V/cell	147	124	78.0	48.6	31.1	22.5	17.5	14.8	10.5	9.00	4.77

## Constant power discharge characteristics at 25°C

(Watts/battery)

F.V/Time	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
1.60V/cell	1895	1581	980	616	381	275	216	184	131	109	58.3
1.67V/cell	1839	1543	960	606	379	274	215	183	130	109	58.2
1.70V/cell	1763	1486	931	591	375	272	213	182	129	109	58.0
1.75V/cell	1687	1436	908	573	370	270	212	181	128	108	57.6
1.80V/cell	1592	1360	875	554	360	264	205	175	124	107	57.2