



## GTP12-110 (12V110Ah)

**Tubular GEL  
VRLA Battery  
For Deep Cycle  
Applications**

- Nonwoven protective gauntlet, better elastic, less pore size, less electrical resistance and higher air permeability.
- Flexible, fully isolated connector prevents any creeping current.
- Imported microporous cater corner separator with advanced quality provides higher porosity and lower electrical resistance.
- Containers and lids are made of polypropylene (PP). The impact resistance is very good.
- Patented terminal sealing construction fully prevents plate growth and electrolyte leakage.
- Provides leak free service throughout the operational life of the battery.
- Low gassing thanks to antimony-free alloy and internal oxygen recombination.
- Minimum space required and room requirements are minimal e.g. no washing facilities needed, ventilation requirements are minimal.
- Easy to move and handle.
- Easy install using cable connectors with insulated terminal covers.
- Ready for immediate use without further commissioning work.
- Can be supplied as a standard vertical installation or by special request, for a horizontal installation.
- Very low self-discharge <50% of rated capacity in 2 years at 20°C ambient temperature.
- High cyclic ability over 1000 cycles when discharged at 100%DOD at 20°C.
- Deep discharge protected, a load can be connected to the battery for up to 4 weeks.
- No internal short circuits possible due to the gel structure.
- No acid stratification, so no equalizing charge necessary.

**DEEP CYCLE BATTERY**

### Specifications

Nominal Voltage	12V
Rated Capacity(25°C / 77°F)	100.0AH/11.0A (100hr, 1.80V/cell)
	90.0AH/9.00A (10hr, 1.75V/cell)
	80.5 AH/16.1 A (5hr, 1.75V/cell)
Reserve Capacity(25Amps)	165 min
Length	330 ±2mm(12.99 inches)
Width	173 ±2mm(6.81 inches)
Container Height	212 ±2mm(8.35 inches)
Total Height	237 ±2mm(9.33 inches)
Wet Weight	Approx 30.7Kg (67.70lbs)
Standard Terminal	M1
Container Material	PP
Operating Temp. Range	Discharge:-15°C ~50°C (5°F ~122°F)
	Charge: 0°C ~40°C (32°F ~104°F)
	Storage: -15°C ~40°C (5°F ~104°F)
Cycle Use	Initial Charging Current:less than 20.1A
	Voltage 14.4V~14.7V at 25°C(77°F)
	Temp.Coefficient -30mV/°C
Standby Use	No limit on Initial Charging Current
	Voltage 13.6V~13.8V at 25°C(77°F)
	Temp. Coefficient -20mV/°C

#### China sales office:

Add:5th Floor,Xinbaohui Bldg.,Nanhai Blvd.,  
Nanshan,Shenzhen, China. 518052  
Tel: +86-755-86036060 (100 lines)  
Fax: +86-755-26067269  
E-mail:export@leoch.com  
Http://www.leoch.com

#### Europe sales office:

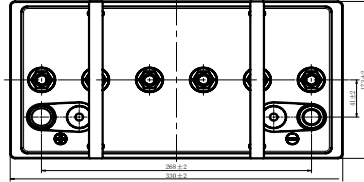
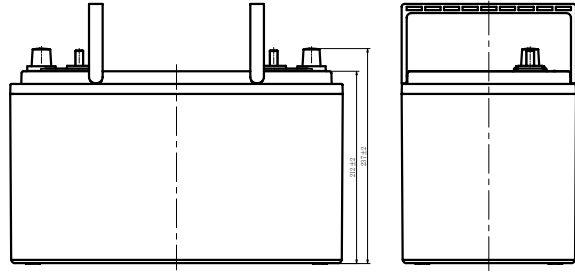
Add: 9B Wheatstone Court. Waterwells  
Business Park, Gloucester, GL2-2AQ,  
UK United Kingdom  
Tel: +44(0) 1452 729428 / 1452 729696  
Fax: +44 (0)1452-690125  
E-mail: Sales.Europe@leoch.com

**Sales Office**

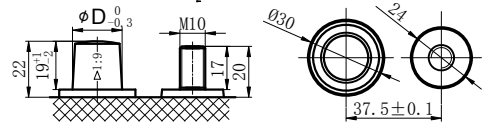
# GTP12-110

## (12V110Ah)

### Construction



Terminal		
Terminal Type	D	
	Positive	Negative
M1	19.5 <sup>0.3</sup>	17.9 <sup>0.3</sup>



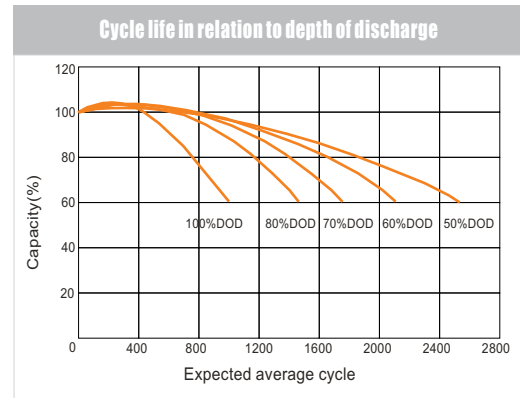
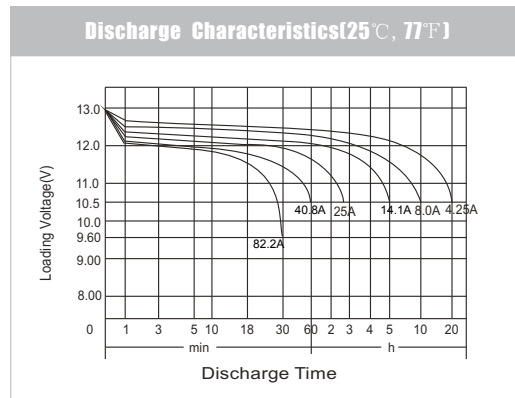
### Constant Current Discharge Ratings

Amperes at 25°C(77°F)											
F.V(V/cell)	30min	45min	1H	2H	3H	4H	5H	8H	10H	11H	20H
1.85	66.0	50.1	40.7	26.2	20.5	16.9	14.4	9.89	8.09	7.51	4.48
1.80	71.3	53.4	43.6	28.1	21.8	18.2	15.6	10.7	8.86	8.18	4.67
1.75	77.0	56.5	46.2	29.4	22.5	18.7	16.1	11.0	9.00	8.35	4.82
1.70	83.1	61.0	48.9	30.6	23.3	19.3	16.4	11.2	9.24	8.57	4.90
1.65	88.5	64.4	51.7	31.7	24.1	19.8	16.7	11.5	9.37	8.61	4.96
1.60	93.1	67.0	53.6	32.7	24.8	20.2	17.1	11.6	9.50	8.72	4.99

### Constant Power Discharge Ratings

Watts/cell at 25°C(77°F)											
F.V(V/cell)	30min	45min	1H	2H	3H	4H	5H	8H	10H	11H	20H
1.85	126.8	96.9	79.0	51.0	40.2	33.3	28.2	19.5	16.1	15.0	8.99
1.80	135.3	102.4	84.0	54.4	42.3	35.3	30.5	21.1	17.3	16.2	9.31
1.75	145.6	107.9	88.9	56.8	43.6	36.3	31.3	21.7	17.9	16.7	9.63
1.70	156.3	116.2	93.8	58.9	45.0	37.3	32.0	22.1	18.2	17.1	9.82
1.65	165.8	122.0	98.8	60.9	46.5	38.2	32.5	22.5	18.4	17.0	9.89
1.60	172.6	126.0	101.7	62.5	47.6	38.8	33.1	22.8	18.6	17.3	10.0

### Discharge & Cycle Graphs



DEEP CYCLE BATTERY

