



LPCG12-50 (12V 55Ah)

Specifications	
Rated Voltage	12V
Nominal Capacity	55Ah (C ₂₀ 1.80V/cell)
Dimensions	Length 229 mm
	Width 138 mm
	Container Height 205 mm
	Total Height 211 mm
Approx. Weight	16.6 Kg (36.6lbs)
Terminal	T6
Layout	1
Container material	ABS
Rated Capacity (25°C)	55.0Ah (20hr, 2.75A, 1.80V/cell)
	47.0Ah (10hr, 4.70A, 1.80V/cell)
	41.6Ah (5hr, 8.32A, 1.75V/cell)
	37.2Ah (3hr, 12.4A, 1.75V/cell)
	28.9Ah (1hr, 28.9A, 1.67V/cell)
Max. Discharge Current	470A (5s)
Internal Resistance (25°C)	Approx 10mΩ
Operating Temp. Range	Discharge: -20°C ~55°C (-4~131°F)
	Charge: 0°C ~40°C (32~104°F)
	Storage: -20°C ~50°C (-4~122°F)
Nominal Operating Temp. Range	25±3°C (77±5 °F)
Cycle Use	Initial Charging Current less than 11.8A. Voltage 14.4V~14.7V at 25 °C(77 °F)Temp. Coefficient -30mV/ C
Standby Use	Initial Charging Current less than 11.8A. Voltage 13.5V~13.8V at 25 °C(77 °F)Temp. Coefficient -20mV/ C
Effect Of Temp. To Capacity	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	LPCG series batteries may be stored for up to 9 months at 25 °C (77 °F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.



Description and Features

The LPCG Series gel batteries are specially designed for deep cyclic use. These gel batteries are completely sealed and therefore 100% maintenance free and leak-proof. The powerful and stable gel batteries offer a long service life and are suitable for deep cycle applications. Available in a range of 12V batteries from 30Ah to 200Ah.

Features

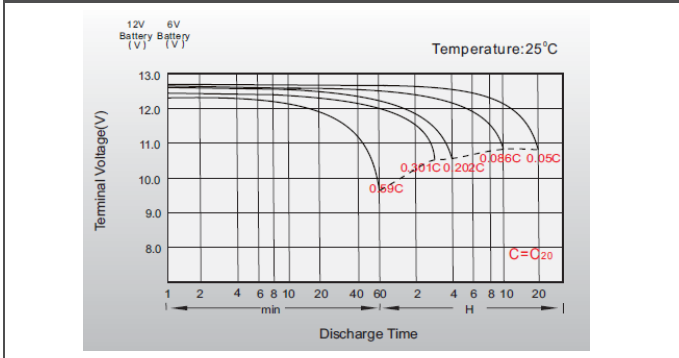
- Gel technology
- More resistant to deep discharge and higher temperatures
- Long service life – 50% more cycles than VRLA AGM
- Suitable for extreme (deep) cycle applications

Layout	Terminal	UL certification

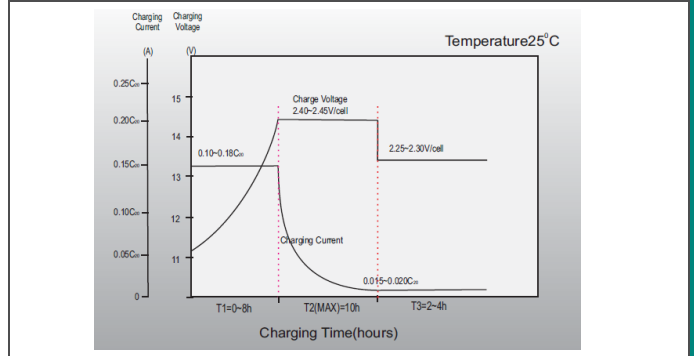
Constant Current Discharge (Amperes) At 25°C (77°F)										
F.V/Time	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	8 Hr	10 Hr	20 Hr	
1.85V/cell	22.1	13.6	10.8	8.82	7.66	6.71	5.43	4.61	2.63	
1.80V/cell	24.4	15.0	11.9	9.59	8.07	7.09	5.67	4.70	2.75	
1.75V/cell	27.4	16.2	12.4	9.87	8.32	7.32	5.76	4.84	2.83	
1.67V/cell	28.9	16.8	12.8	10.1	8.55	7.44	5.86	4.89	2.90	
1.60V/cell	29.7	17.1	13.0	10.2	8.74	7.56	5.91	4.94	2.94	

Constant Power Discharge (Watts/Cell) At 25°C (77°F)										
F.V/Time	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	8 Hr	10 Hr	20 Hr	
1.85V/cell	43.0	26.7	21.2	17.3	15.0	13.3	10.7	9.12	5.22	
1.80V/cell	47.2	29.2	23.2	18.8	15.9	13.9	11.2	9.29	5.46	
1.75V/cell	52.5	31.2	24.1	19.3	16.3	14.4	11.4	9.59	5.61	
1.67V/cell	54.6	32.1	24.6	19.5	16.6	14.6	11.5	9.59	5.74	
1.60V/cell	55.8	32.6	24.8	19.7	16.9	14.7	11.6	9.68	5.80	

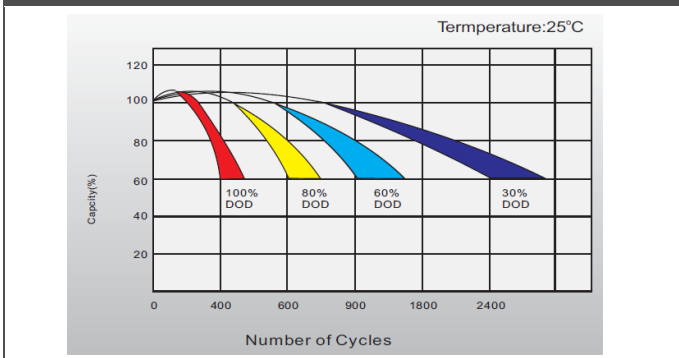
Discharge Characteristics



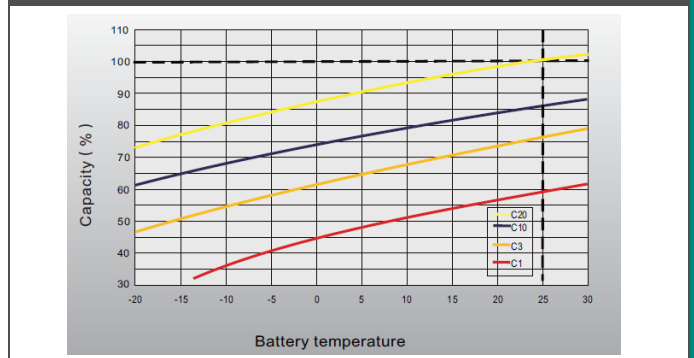
Charging Characteristics



Cycle Life In Relation To Depth Of Discharge



Temperature Effects In Relation To Battery Capacity



Applications

- Electrically powered wheelchair
- Vehicle in place of walking
- Lawn-mower
- Golf trolleys and golf cart
- Railway and marine systems

General Features

- Special plate design, long cycle life
- ≥ 600 Cycles @ 80%DOD
- Operation temperature - 20~55°C
- $\leq 2\%$ Self discharge per month
- Good deep discharge resilience performance

Standards

- IEC 60896 Certified
- Classified as "Long Life" according to Eurobat
- UL Certified
- UKCA Certified (for UK)
- IATF16949, ISO 9001, ISO 14001 and OHSAS 18001 certified production facilities

(Note) All above information shall be changed without prior notice, Landport Batteries reserves the right to explain and update the latest information.