



NPG12-100 (12V100Ah)

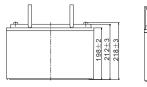
Rechargeable Deep Cycle Gel Battery

\sim		PH	4		
\leq n	eci	TIC	ıaı	חו	ne
UΡ	CU	1114	,aı	ıv	110

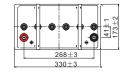
Rated Voltage	12V				
Nominal Capacity	100Ah	(C ₂₀ ,1.80V/cell)			
Dimension	Length Width Container Height Total Height	330±3mm (13.0 inches) 173±2mm (6.81 inches) 212±3mm (8.35 inches) 218±3mm (8.58 inches)			
Approx Weight	31.2 Kg (68.8lbs)				
Terminal	M8				
Container Material	ABS				
Rated Capacity (25°C)	100.0 Ah 88.8 Ah 80.0 Ah 72.0 Ah 56.3 Ah	(20hr,5.00A,1.80V/cell) (10hr,8.88A,1.80V/cell) (5hr,16.0A,1.75V/cell) (3hr,24.0A,1.75V/cell) (1hr,56.3A,1.67V/cell)			
Max. Discharge Current	1000A (5s)				
Internal Resistance (25°C)	Approx 6.9mΩ				
Operating Temp.Range	Discharge: -20 ~ 55°C (-4 ~ 1 Charge: -20 ~ 40°C (-4 ~ 1 Storage: -20 ~ 50°C (-4 ~ 1	04°F)			
Nominal Operating Temp. Range	25±3°C (77±5°F)				
Cycle Use	Initial Charging Current less to 14.4V~14.7V at 25°C(77°F)Te				
Standby Use	Initial Charging Current less t 13.5V~13.8V at 25°C(77°F)Te				
Effect of temp. to Capacity	40°C (104°F) 25°C (77°F) 0°C (32°F)	103% 100% 86%			
Self Discharge	LPCG series batteries may be s at 25°C(77°F) and then a freshe For higher temperatures the tin	ening charge is required.			



Layout









Constant Current Discharge (Amperes) at 25 °C (77°F)										
F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h	
1.85V/cell	43.1	26.5	21.0	17.0	14.8	12.9	10.4	8.62	4.66	
1.80V/cell	47.7	29.3	23.1	18.4	15.6	13.7	10.9	8.88	5.00	
1.75V/cell	53.6	31.4	24.0	19.1	16.0	14.1	11.0	9.06	5.06	
1.67V/cell	56.3	32.6	24.8	19.4	16.5	14.4	11.2	9.15	5.12	
1.60V/cell	58.1	33.3	25.1	19.8	16.8	14.6	11.3	9.24	5.20	
Constant Power Discharge (Watts/cell) at 25 °C (77°F)										
F.V/Time	1h	2h	3h	4h	5h	6h	8h	10h	20h	
1.85V/cell	83.8	51.9	41.2	33.5	29.0	25.4	11.8	17.1	9.25	
1.80V/cell	92.2	56.9	45.0	36.2	30.4	26.8	12.0	17.4	9.85	
1.75V/cell	102.6	60.8	46.7	37.2	31.3	27.6	12.2	17.9	9.95	
1.67V/cell	106.6	62.6	47.8	37.6	32.0	27.9	12.4	18.0	10.2	

This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and Battery designs/specification are subject to modification without notice. Contact YHI Power for latest information.

38.1

1.60V/cell

109.0

63.4

48.1

32.5

28.3

12.6

18.1

10.3



NPG12-100 (12V100Ah)

Rechargeable Deep Cycle Gel Battery

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
- ≤2%Self discharge per month
- Good deep discharge resilience performance

Standards

- IEC 60896 Certified
- Classified as "Long Life" according to Eurobat
- · UL Certified
- Manufactured in Leoch® IATF16949, ISO 9001, ISO 14001 and ISO 45001 certified production facilities

