



Carbon 12-100

Advanced Lead Carbon



Superior Deep Cycle Technology



Exceptional Performance



Exceptional Cost Efficiency



Super-Fast charge/discharge performance



High Temperature Tolerance



12 Year Design Life

Warranty Information



2 Year Warranty

Comprehensive Certifications

- IEC 6142, BS EN 61427
- ISO 9001: Quality management systems
- ISO 14001: Environmental management systems
- ISO 45001



EASY

INSTALLATION AND
MAINTENANCE

ROBUST

FAST CHARGE/
DISCHARGE

LONGER LIFESPAN

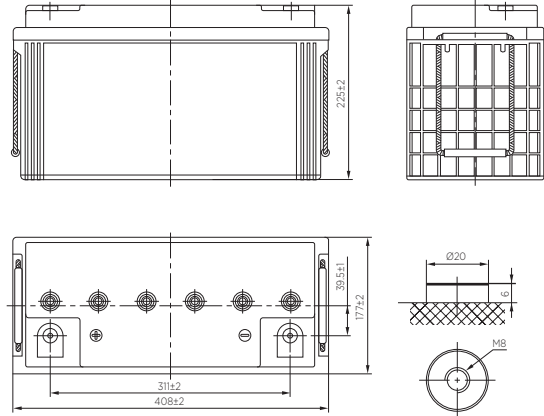
12 YEAR DESIGN LIFE
2 YEAR WARRANTY

HIGH CYCLE LIFE

>4 800 CYCLE @ 40% DoD @ 25°
>3 200 CYCLE @ 60% DoD @ 25°

Mechanical Characteristics

Dimensions	408mm x 177mm x 225mm
Weight	Approx. 39.0Kg
Container Material	ABS
Terminal	M8



Electrical Characteristics

Nominal Capacity	100Ah
Rated Voltage	12V
Nominal Energy	1200Wh
Maximum Discharge Current	50A
Maximum Charge Current	20A
Expected Cycle Life	>8800 @ 20% DoD >4800 @ 40% DoD >3200 @ 60% DoD
Internal Resistance	Approx. 6.0mΩ

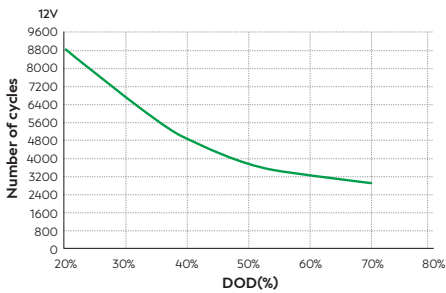
Operating Conditions

Operating Temperatures	Charge: -20°C to 40°C Discharge: -20°C to 55°C Storage: -20°C to 50°C
Nominal Operating Temperature	25°C ± 3°C
Self Discharge	≤3,5% per month at 25°C

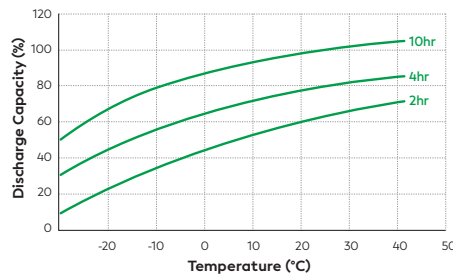
Constant Current Discharge @ 25 °C

F.V/Time	30min	1h	2h	3h	4h	5h	6h	7h	8h	10h	20h
1,95V/cell	47,3	35,5	22,5	17,8	15,1	12,8	11,2	9,9	8,6	7,6	4,1
1,90V/cell	59,1	43	26,8	20,8	17,6	14,9	13	11,5	10,7	8,8	4,7
1,85V/cell	70,4	48,9	31,1	24,8	20,8	17,4	15,1	13,2	11,9	9,9	5,2
1,80V/cell	78,8	53,8	33,1	25,4	21,2	17,7	15,3	13,4	12,2	10	5,3
1,75V/cell	83,7	55,6	33,5	26	21,6	17,9	15,4	13,5	12,3	10,2	5,4
1,70V/cell	87,3	56,8	33,9	26,5	21,9	18,1	15,5	13,6	12,4	10,3	5,5

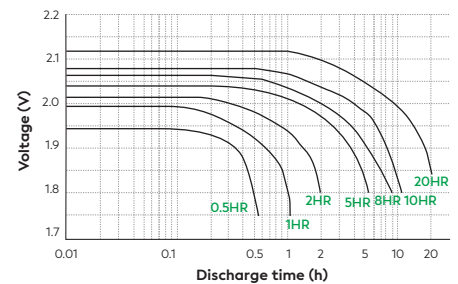
Cycle Life in relation to DOD



Temperature effects in relation to capacity



Discharge Characteristics



User Defined Settings

	12V Application	24V Application	48V Application
Bulk Charge	14.4V	28.8V	57.6V
Float Charge	13.8V	27.6V	55.2V
Equalisation Charge	13.3V	26.6V	53.2V