STRIDENT™ BATTERIES

GP12-3.2 12V 3.2Ah

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore maintenance-free and leak proof. Batteries should be used in an upright position only.

Battery Construction

Component	Positive Plate	Negative Plate	Container	Cover	Safety Value	Terminal	Separator	Electrolyte
Raw Material	Lead Dioxide	Lead	ABS	ABS	Rubber	Copper	Fibreglass	Sulfuric Acid

General Features

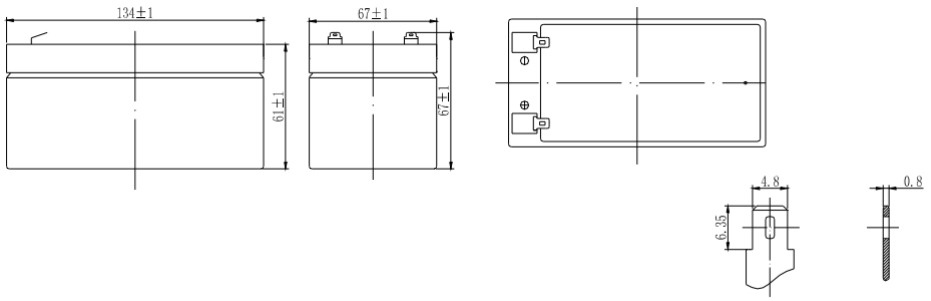
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.
- Freedom from electrolyte maintenance and water adding.
- Not restricted for air transport (complies with IATA/ ICAO Special Provision A67.
- UL-recognised.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.

Performance Characteristics

- Nominal Voltage: 12V
- Number of Cells: 6
- Nominal Capacity 77°F (25°C)
  10 Hour Rate (10.0A, 10.8V): 3.1Ah
  5 Hour Rate (17.5A, 10.5V): 2.8Ah
  1 Hour Rate (66.2A, 9.60V): 2.08Ah
- Internal Resistance
  Fully Charged Battery 77°F (25°C) 68m 0hms
- Self-Discharge
  3% of capacity declined per month at 20° (average)
- Operating Temperature Range
  Discharge: -20~60°C
  Charge: –10~60°C
  Storage: –20~60°C
- Max. Discharge Current 77°F (25°C): 48A (5s)
- Short Circuit Current: 160A
- Charge methods: Constant Voltage Charge 77°F (25°C)
  Cycle use: 2.30—2.35V
  Maximum charging current: 1.28A
  Temperature Compensation: –30mV/°C
- Standby use: 2.23– 2.27V
  Temperature compensation: –20mV/°C

Dimensions and Weight

Length (mm/inch)	134/5.28
Width (mm/inch)	67/2.64
Height (mm/inch)	61/2.40
Total Height (mm/inch)	67/2.64
Approx. Weight (kg/lbs)	3/2.87



STRIDENT™ INNOVATIONS

Strident
50 Turbine Way, Eco Tech Business & Innovation Park, Swaffham, Norfolk, PE37 7XD
Tel: +44 (0)1362 300102 | Fax: +44 (0)1362 300103 | Email: sales@strident.uk.com

www.strident.uk.com

GP12-3.2 12V 3.2Ah(20hr)

Discharge Data

Discharge Constant Current (Amperes at 77°F/25°C)									
End Point Volts/Cell	5min	10min	15min	30min	1h	3h	5h	10h	20h
1.60V	12.90	8.71	6.04	3.66	2.08	0.88	0.61	0.33	0.17
1.65V	12.20	8.29	5.77	3.51	2.01	0.85	0.59	0.32	0.16
1.70V	11.50	7.86	5.50	3.36	1.92	0.82	0.58	0.32	0.16
1.75V	10.10	7.42	5.21	3.20	1.84	0.79	0.56	0.31	0.16
1.80V	9.39	6.98	4.92	3.03	1.75	0.75	0.54	0.30	0.16

The above characteristics data are average values obtained withing three charge/discharge cycles, not the minimum values.

Discharge Constant Power (watts at 77°F/25°C)									
End Point Volts/Cell	5min	10min	15min	30min	45mins	1h	2h	3h	5hr
1.60V	22.8	15.2	11.70	7.10	5.28	4.06	2.24	1.76	1.21
1.65V	21.4	14.3	11.10	6.74	5.04	3.89	2.18	1.72	1.19
1.70V	20.0	13.4	10.40	6.38	4.79	3.71	2.10	1.67	1.16
1.75V	18.6	12.5	9.79	6.01	4.53	3.53	2.02	1.62	1.14
1.80V	17.2	11.7	9.15	5.64	4.26	3.33	1.93	1.57	1.11

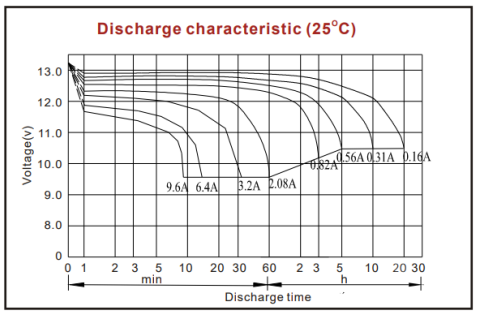
The above characteristics data are average values obtained withing three charge/discharge cycles, not the minimum values.

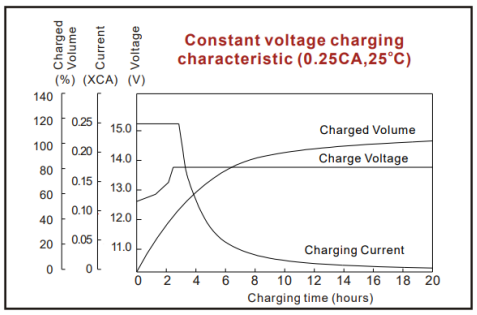
Strident
50 Turbine Way, Eco Tech Business & Innovation Park, Swaffham, Norfolk, PE37 7XD
Tel: +44 (0)1362 300102 | Fax: +44 (0)1362 300103 | Email: sales@strident.uk.com

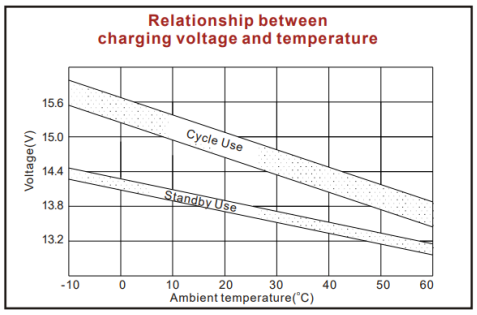
STRIDENT INNOVATIONS
www.strident.uk.com

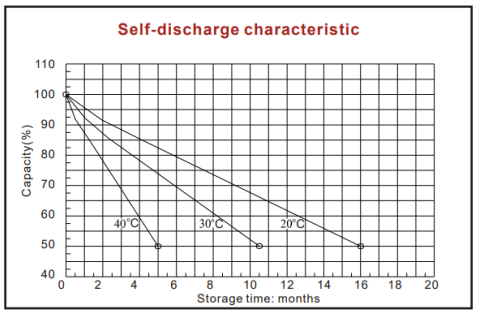
STRIDENT™
BATTERIES

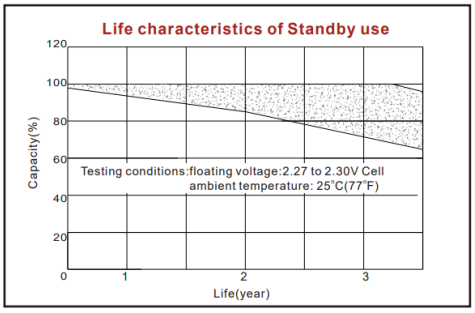
GP12-3.2 12V 3.2Ah(20hr)

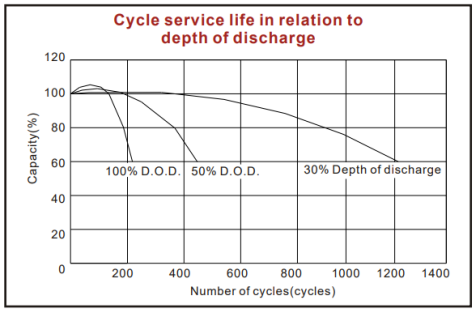


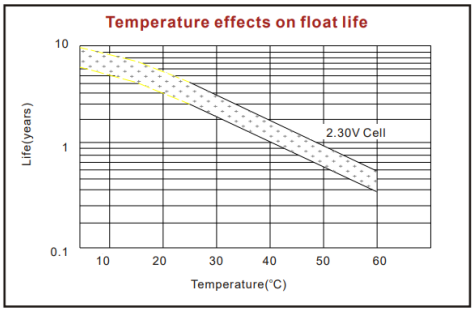


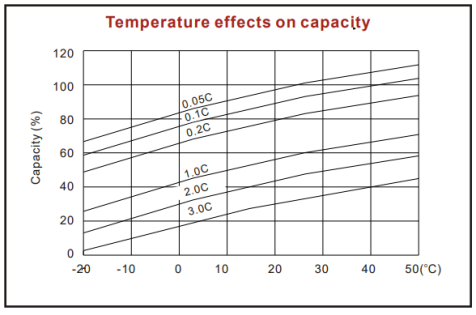












Strident
50 Turbine Way, Eco Tech Business & Innovation Park, Swaffham, Norfolk, PE37 7XD
Tel: +44 (0)1362 300102 | Fax: +44 (0)1362 300103 | Email: sales@strident.uk.com

ISO 9001 Quality Management
ISO 14001 Environmental Management

STRIDENT™ INNOVATIONS

www.strident.uk.com