

### Lifos Go 105Ah Technical Data Sheet (LB0105)

#### ELECTRICAL SPECIFICATIONS

|  |               |
|--|---------------|
| Nominal Voltage                                  | 12.8V         |
| Nominal Capacity                                 | 105Ah         |
| Energy   | 1344Wh        |
| Resistance                                       | ≤15mΩ         |
| Efficiency                                       | ≥90%          |
| Self Discharge                                   | ≤3% per month |
| Maximum Batteries in Series (see table page 4)   | 4PCS          |
| Maximum Batteries in Parallel (see table page 4) | 4PCS          |

#### DISCHARGE SPECIFICATIONS

|                                    |                                    |
|------------------------------------|------------------------------------|
| Continuous Discharge Current       | <100A                              |
| Peak Discharge Current             | 120A (10 minutes)                  |
| Peak Discharge Current             | 150A (3 minutes)                   |
| BMS Discharge Current Cut Off      | >150A (6 seconds)                  |
| BMS High Temperature Cut Off       | 50°C Charge/60°C Discharge         |
| Recommended Low Voltage Disconnect | ≥11.2V                             |
| Reconnect Voltage                  | ≥12.8V                             |
| Short Circuit Protection           | >700A / External fuse is necessary |

#### TEMPERATURE SPECIFICATIONS

|                              |          |
|------------------------------|----------|
| Discharge Temperature        | -20~60°C |
| Charge Temperature           | 0~50°C   |
| Storage Temperature          | -20~40°C |
| BMS High Temperature Cut-Off | 85°C±5°C |

#### MECHANICAL SPECIFICATIONS

|                                      |                   |
|--------------------------------------|-------------------|
| Dimensions inc terminals (LxWxH)     | 328 x 177 x 233mm |
| Dimensions without terminals (LxWxH) | 328 x 177 x 218mm |
| Weight                               | 11.9kg            |
| Terminal Type                        | Copper pole, M8   |
| Terminal Torque                      | <10N.m            |
| Case Material                        | PC & ABS UL94V-0  |
| Enclosure Protection (IP rating)     | IP54              |
| Cell type - Chemistry                | LiFePO4           |

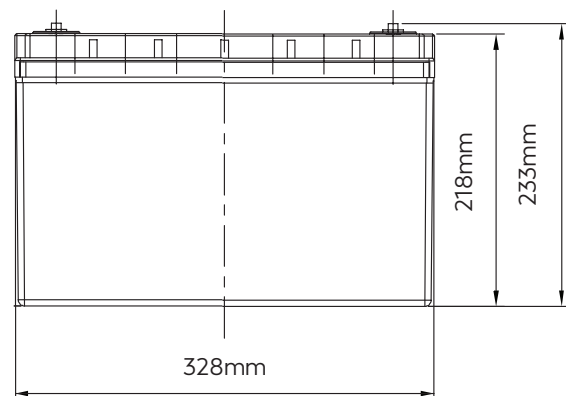
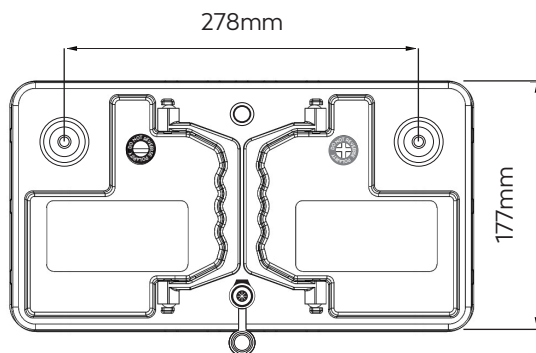
#### CHARGE SPECIFICATIONS

|                            |                   |
|----------------------------|-------------------|
| Recommended Charge Current | 20-50A            |
| Maximum Charge Current     | 100A              |
| BMS Charge Current Cut Off | >100A             |
| Recommended Charge Voltage | 14.4V-14.6V       |
| BMS Charge Voltage Cut Off | 3.75V±0.025V/cell |
| Reconnect Voltage          | 2.95V±0.02V/cell  |
| Balancing Voltage          | 3.45V/cell        |

#### COMPLIANCE SPECIFICATIONS & COMMUNICATIONS

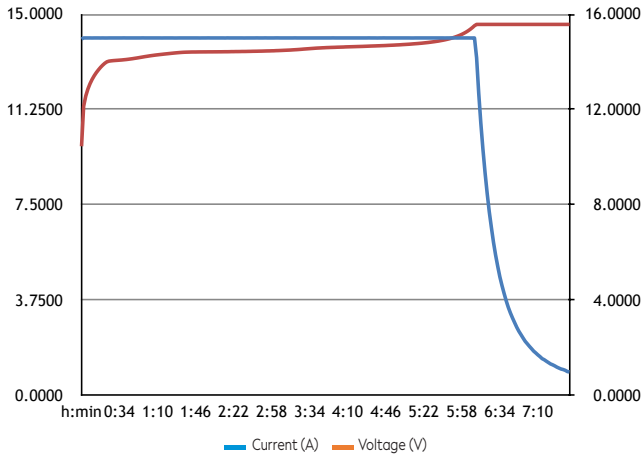
|                         |                           |               |
|-------------------------|---------------------------|---------------|
| Certifications          | CE - EN 55032:2015/7      | ZRLK          |
|                         | Rohs - 2015/863           | TUV           |
|                         | UN38.3                    | ZRLK          |
| Shipping Classification | UN3480                    | Class 9       |
|                         |                           | See MSDS      |
| Communications          | Bluetooth Information App | Android & IOS |

#### DIMENSIONAL SPECIFICATIONS

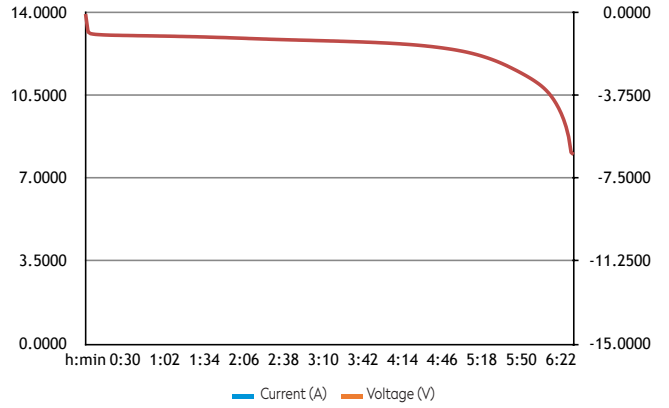


PERFORMANCE CHARACTERISTICS

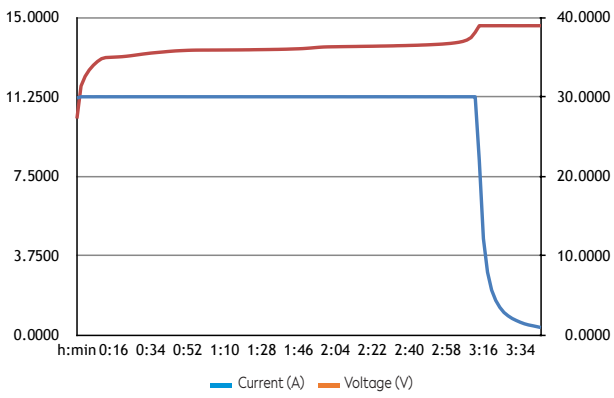
15A Charge @ 5°C



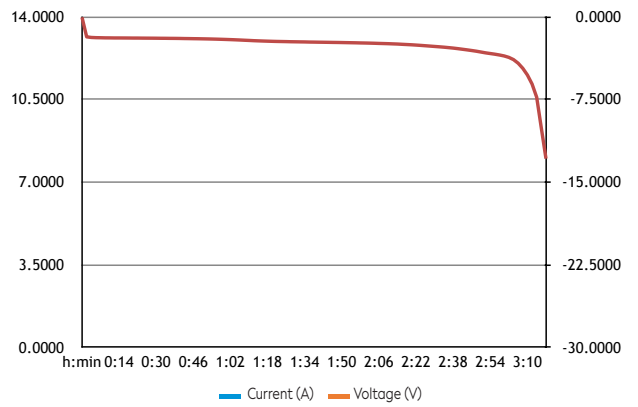
15A Discharge @ 5°C



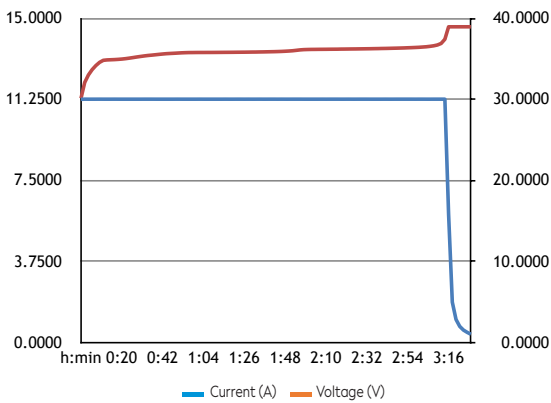
30A Charge @ 25°C



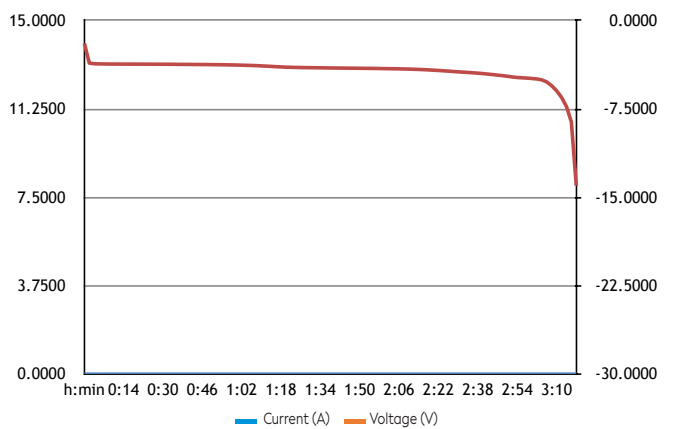
30A Discharge @ 25°C



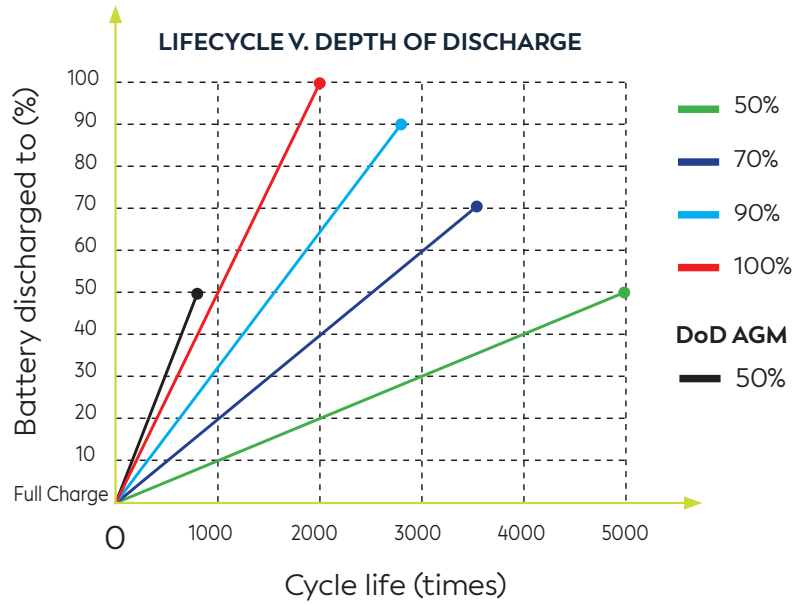
30A Charge @ 35°C



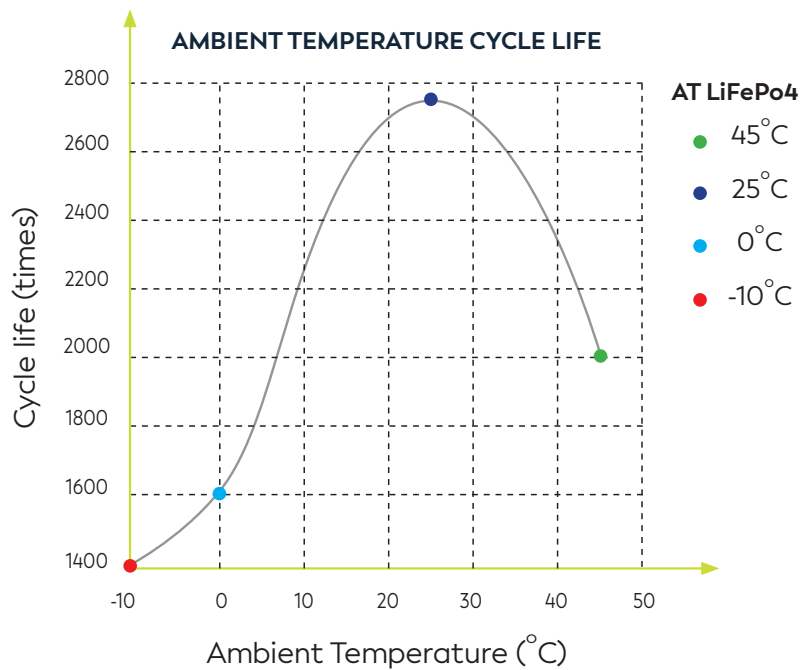
30A Discharge @ 35°C



## PERFORMANCE CHARACTERISTICS



| Depth of Discharge | 100% DOD | 90% DOD | 70% DOD | 50% DOD |
|--------------------|----------|---------|---------|---------|
| Cycle life (times) | 2000     | 2750    | 3500    | 5000    |



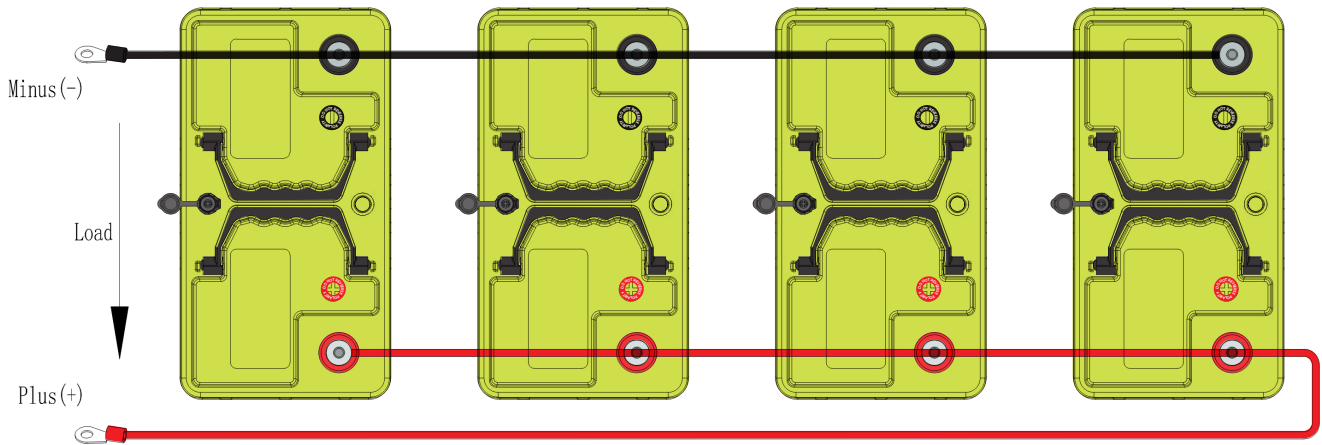
| Ambient Temperature | -10°C | 0°C  | 25°C | 45°C |
|---------------------|-------|------|------|------|
| Cycle life (times)  | 1400  | 1600 | 2750 | 2000 |

## POWER BANK CREATION

Lifos Go 105Ah can be connected up in parallel or series when needed but only in the below configurations:

| PARALLEL | SERIES  |         |         |         |
|----------|---------|---------|---------|---------|
|          | 1 (12v) | 2 (24v) | 3 (36v) | 4 (48v) |
| 1        | YES     | YES     | YES     | YES     |
| 2        | YES     | YES     | YES     | YES     |
| 3        | YES     | YES     | NO      | NO      |
| 4        | YES     | YES     | NO      | NO      |

4 parallel



4 Series/48V

