

**DATASHEET**
**SLC 40-12**
**12V 40AH**

**AGM SEALED VRLA BATTERY**
**LONG LIFE 10-12 YEARS OF EXPECTED LIFETIME**
**(EUROBAT)**
**SPECIFICATIONS**

|                        |                              |                                 |
|------------------------|------------------------------|---------------------------------|
| Nominal Voltage        | 12V                          |                                 |
| Nominal Capacity       | 40Ah                         |                                 |
| Terminal               | T6                           |                                 |
| Approx. Weight         | Approx 12 kg (26,45 lbs)     |                                 |
| Container Material     | ABS                          |                                 |
| Dimensions             | Length                       | 197 ± 2 mm (7,76 inches)        |
|                        | Width                        | 165 ± 2 mm (6,50 inches)        |
|                        | Container Height             | 170 ± 2 mm (6,69 inches)        |
|                        | Total Height (with terminal) | 170 ± 2 mm (6,69 inches)        |
| Rated Capacity         | 40 Ah / 2A                   | (20 hr, 1,80 V/cell, 25°C/77°F) |
|                        | 38 Ah / 3,8A                 | (10 hr, 1,80 V/cell, 25°C/77°F) |
|                        | 32,8 Ah / 6,56A              | (5 hr, 1,75 V/cell, 25°C/77°F)  |
|                        | 28,62 Ah / 9,54A             | (3 hr, 1,75 V/cell, 25°C/77°F)  |
|                        | 24,3 Ah / 24,3A              | (1 hr, 1,60 V/cell, 25°C/77°F)  |
| Max. Discharge Current | 456,0 A (5 s)                |                                 |
| Internal Resistance    | Approx 10,0 mΩ               |                                 |

Operating Temperature

 Discharge : -15 ÷ 50°C (5 ÷ 122°F)  
 Charge : 0 ÷ 40°C (32 ÷ 104°F)  
 Storage : -15 ÷ 40°C (5 ÷ 104°F)

Nominal Operating Temp. Range

25 ± 3°C (77 ± 5°F)

Cycle Use

 Initial Charging Current less than 8 A Voltage  
 14,4 ÷ 15,0V at 25°C (77°F) Temperature Coefficient -30mV/°C

Standby Use

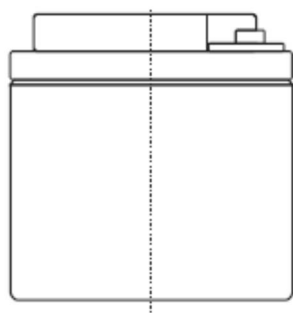
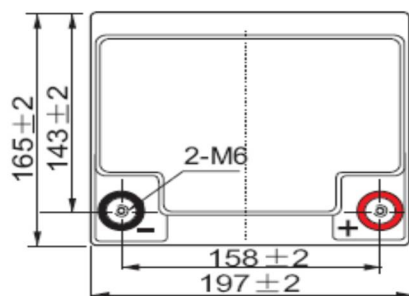
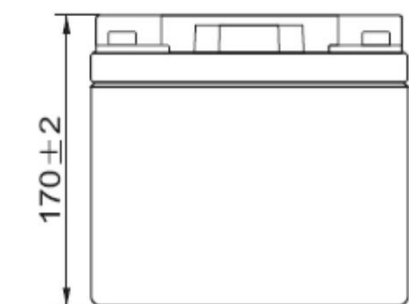
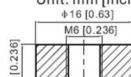
 No limit on Initial Charging Current Voltage  
 13,5 ÷ 13,8 V at 25°C (77°F) Temperature Coefficient -20mV/°C

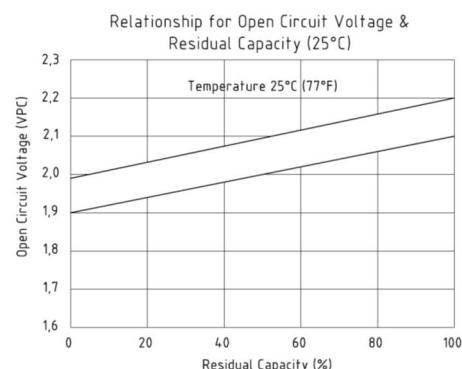
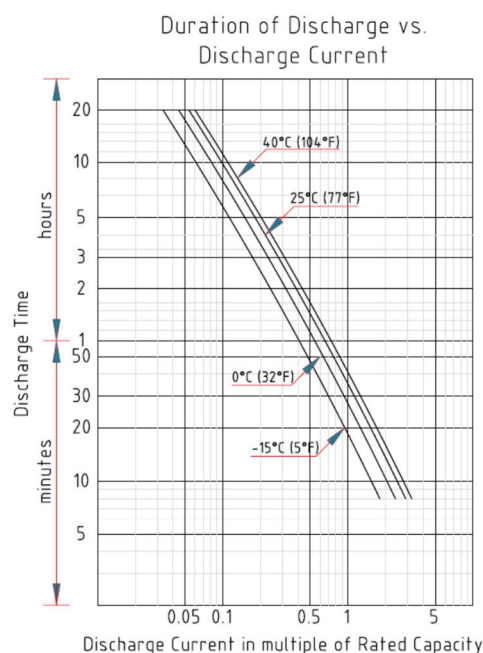
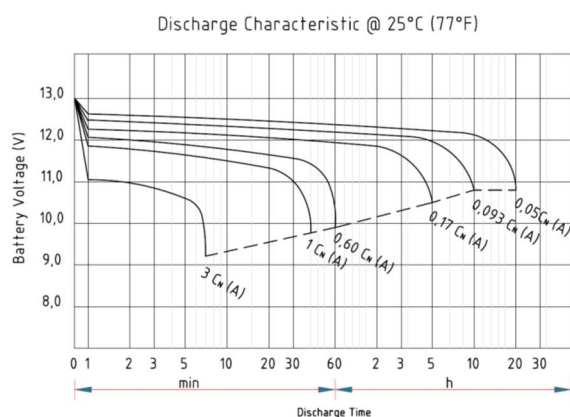
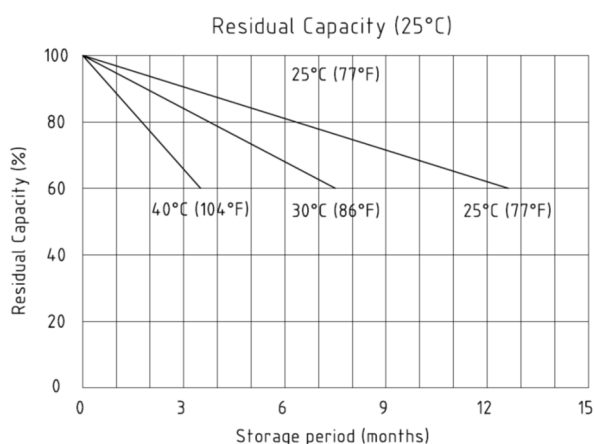
Capacity affected by Temperature

 40°C (104°F) 103%  
 25°C (77°F) 100%  
 0°C (32°F) 86%

Self discharge

Enerpower SLC series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.


**T6 Terminal**  
 Unit: mm [inches]




## Constant Current Discharge (Amperes)

at 25°C (77°F)

| F.V / Time   | 10 min | 15 min | 20 min | 30 min | 45 min | 1 h  | 2 h  | 3 h   | 4 h  | 5 h  | 6 h  | 8 h  | 10 h | 20 h |
|--------------|--------|--------|--------|--------|--------|------|------|-------|------|------|------|------|------|------|
| 1,85V / cell | 53,6   | 46,2   | 40,1   | 31,1   | 23,5   | 19,1 | 11,5 | 8,79  | 7,21 | 6,14 | 5,38 | 4,35 | 3,66 | 1,96 |
| 1,80V / cell | 62,7   | 52,5   | 45,1   | 34,1   | 25,4   | 20,4 | 12,3 | 9,26  | 7,55 | 6,41 | 5,61 | 4,53 | 3,80 | 2,00 |
| 1,75V / cell | 68,4   | 57,4   | 48,3   | 36,6   | 27,0   | 21,6 | 12,8 | 9,54  | 7,74 | 6,56 | 5,72 | 4,59 | 3,84 | 2,01 |
| 1,70V / cell | 73,9   | 61,3   | 51,3   | 38,2   | 28,1   | 22,5 | 13,2 | 9,82  | 7,93 | 6,71 | 5,83 | 4,66 | 3,88 | 2,03 |
| 1,67V / cell | 76,75  | 63,2   | 52,8   | 39,2   | 28,8   | 23,0 | 13,4 | 9,96  | 8,01 | 6,78 | 5,88 | 4,70 | 3,90 | 2,05 |
| 1,65V / cell | 79,6   | 65,1   | 54,3   | 40,1   | 29,4   | 23,4 | 13,5 | 10,10 | 8,09 | 6,84 | 5,93 | 4,73 | 3,92 | 2,06 |
| 1,60V / cell | 85,7   | 69,7   | 57,1   | 42,0   | 30,6   | 24,3 | 14,0 | 10,30 | 8,26 | 6,96 | 6,02 | 4,79 | 3,97 | 2,07 |

## Constant Power Discharge (Watts)

at 25°C (77°F)

| F.V / Time   | 10 min | 15 min | 20 min | 30 min | 45 min | 1 h   | 2 h   | 3 h   | 4 h   | 5 h   | 6 h   | 8 h  | 10 h | 20 h |
|--------------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|------|------|------|
| 1,85V / cell | 110,50 | 95,55  | 83,17  | 64,48  | 48,57  | 39,41 | 23,52 | 17,92 | 14,67 | 12,40 | 10,85 | 8,82 | 7,42 | 3,97 |
| 1,80V / cell | 130,70 | 109,68 | 94,33  | 71,16  | 52,92  | 42,44 | 25,17 | 18,86 | 15,36 | 12,95 | 11,39 | 9,16 | 7,69 | 4,02 |
| 1,75V / cell | 144,40 | 121,00 | 102,05 | 76,92  | 56,60  | 45,18 | 26,39 | 19,50 | 15,74 | 13,31 | 11,52 | 9,29 | 7,75 | 4,05 |
| 1,70V / cell | 157,87 | 130,55 | 109,42 | 81,07  | 59,46  | 47,40 | 27,37 | 20,10 | 16,11 | 13,65 | 11,75 | 9,38 | 7,82 | 4,08 |
| 1,67V / cell | 165,60 | 136,10 | 111,20 | 83,60  | 61,00  | 48,50 | 27,80 | 20,40 | 16,40 | 13,80 | 11,90 | 9,40 | 7,90 | 4,10 |
| 1,65V / cell | 171,86 | 140,24 | 116,76 | 85,61  | 62,46  | 49,46 | 28,05 | 20,70 | 16,47 | 13,89 | 11,98 | 9,54 | 7,92 | 4,13 |
| 1,60V / cell | 185,57 | 150,45 | 123,26 | 89,94  | 64,88  | 51,38 | 28,99 | 21,17 | 16,82 | 14,13 | 12,22 | 9,66 | 7,98 | 4,14 |