

DIM - PURE LEAD MULTI APPLICATION
DIM - 12070 (12V70AH)

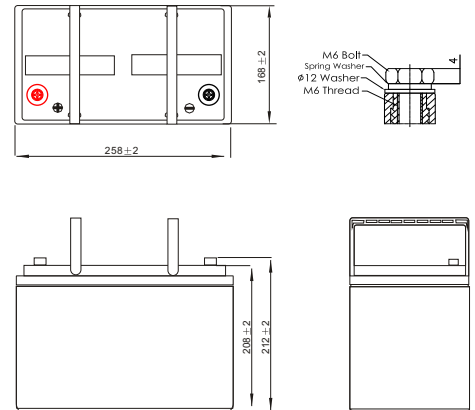


SPECIFICATIONS

| | | |
|--------------------------------------|---|-------------------------|
| RATED VOLTAGE | MODEL DIM 12070 | 12 V |
| NOMINAL CAPACITY | C10, 1.80V/cell | 70 Ah |
| | C8, 1.75V/cell | 70 Ah |
| DIMENSION | Length | 258±2mm |
| | Width | 168±2mm |
| | Container Height | 208±2mm |
| | Total Height | 212±2mm |
| APPROX. WEIGHT | | 20.2Kg |
| TERMINAL | | M6 |
| CONTAINER MATERIAL | ABS flame retardant jar and cover | |
| RATED CAPACITY | 72.5 Ah | 20Hr, 3.64A, 1.80V/cell |
| | 70.0 Ah | 10Hr, 7.00A, 1.80V/cell |
| | 60.3 AH | 5Hr, 12.1A, 1.75V/cell |
| | 54.8 Ah | 3Hr, 18.2A, 1.75V/cell |
| | 43.2 AH | 1Hr, 42.7A, 1.670V/cell |
| MAX. DISCHARGE CURRENT | | 840A |
| INTERNAL RESISTANCE (25°C) | Approx. 3.8 mΩ (Fully charged) | |
| OPERATING TEMP. RANGE | Discharge | -40~65°C |
| | Charge | 0~54°C |
| | Storage | -20~40°C |
| NOMINAL OPERATING TEMP. RANGE | | 25±3°C |
| MAX. CHARGING CURRENT (25°C) | | 21.0 A |
| CHARGE VOLTAGE(25°C) | Float | 13.62V |
| | Temp. Coefficient | -3mV/cell/°C |
| | Equalization | 14.1~14.4V |
| EFFECT OF TEMP. TO CAPACITY | 40°C | 103% |
| | 25°C | 100% |
| | 0°C | 86% |
| SELF DISCHARGE | DIM series batteries can be stored up to 24 months at 25°C, For higher temperatures the time interval will be shorter. Battery needs to be given a freshening charge when the OCV approach 2.10V/cell or when the maximum storage time is reached, whichever occurs first. | |



LAYOUT



CONSTANT CURRENT DISCHARGE (AMPERES) AT 25°C

| F.V/Time | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|-------|--------|--------|--------|--------|--------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 119.8 | 94.2 | 80.1 | 67.0 | 53.2 | 40.3 | 33.0 | 21.0 | 16.6 | 13.6 | 10.9 | 9.53 | 7.74 | 6.61 | 3.61 |
| 1.80V/cell | 160.8 | 120.4 | 96.8 | 79.2 | 62.8 | 46.9 | 37.0 | 22.9 | 17.9 | 14.5 | 11.7 | 10.2 | 8.20 | 7.00 | 3.64 |
| 1.75V/cell | 181.3 | 132.2 | 105.7 | 85.2 | 65.2 | 48.6 | 38.7 | 23.8 | 18.2 | 14.8 | 12.0 | 10.5 | 8.34 | 7.07 | 3.68 |
| 1.70V/cell | 199.7 | 144.1 | 112.9 | 89.5 | 67.9 | 50.6 | 39.9 | 24.7 | 18.7 | 15.2 | 12.4 | 10.7 | 8.46 | 7.14 | 3.75 |
| 1.65V/cell | 220.2 | 155.6 | 120.0 | 95.1 | 71.6 | 51.8 | 41.2 | 25.4 | 19.5 | 15.7 | 12.7 | 11.0 | 8.60 | 7.29 | 3.79 |
| 1.60V/cell | 242.8 | 168.9 | 128.3 | 101.3 | 75.6 | 54.0 | 42.7 | 26.3 | 20.1 | 16.2 | 13.1 | 11.2 | 8.68 | 7.36 | 3.82 |

CONSTANT POWER DISCHARGE (WATTS/CELL) AT 25°C

| F.V/Time | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h | 20h |
|------------|-------|--------|--------|--------|--------|--------|------|------|------|------|------|------|------|------|------|
| 1.85V/cell | 219.1 | 174.0 | 149.5 | 126.3 | 101.5 | 77.5 | 63.6 | 40.8 | 32.4 | 26.5 | 21.4 | 18.7 | 15.3 | 13.0 | 7.14 |
| 1.80V/cell | 290.9 | 219.7 | 178.2 | 147.1 | 117.9 | 89.4 | 70.9 | 44.2 | 34.7 | 28.2 | 22.9 | 20.0 | 16.1 | 13.8 | 7.20 |
| 1.75V/cell | 321.0 | 237.5 | 192.2 | 156.7 | 121.4 | 91.9 | 73.9 | 45.7 | 35.2 | 28.7 | 23.5 | 20.5 | 16.4 | 13.9 | 7.26 |
| 1.70V/cell | 343.7 | 253.0 | 202.4 | 163.5 | 125.7 | 95.2 | 75.9 | 47.4 | 36.1 | 29.4 | 24.0 | 20.9 | 16.6 | 14.1 | 7.39 |
| 1.65V/cell | 373.6 | 270.6 | 213.5 | 172.4 | 131.5 | 96.7 | 77.9 | 48.5 | 37.4 | 30.3 | 24.6 | 21.3 | 16.8 | 14.3 | 7.48 |
| 1.60V/cell | 402.6 | 287.1 | 224.6 | 181.6 | 137.8 | 100.2 | 80.3 | 49.9 | 38.4 | 31.2 | 25.3 | 21.7 | 17.0 | 14.5 | 7.51 |