

# TECHNICAL DATASHEET

## NM1223-F1

VRLA standby battery

# NORDMAX™

## Technical data

### General

|                            |                               |
|----------------------------|-------------------------------|
| Nominal voltage            | 12 V (6 cell per unit)        |
| Nominal capacity (C20)     | 2,3 Ah                        |
| Length                     | 178 mm                        |
| Width                      | 35 mm                         |
| Container Height           | 61 mm                         |
| Total Height               | 67 mm                         |
| Approx. Weight             | 0,88 kg                       |
| Terminal                   | F1                            |
| Max discharge current (5s) | 34,5 A                        |
| Internal resistance        | 60 mΩ                         |
| Container material         | ABS                           |
| EUROBAT                    | 3-5 years standard commercial |

### Charging

|                          |                 |
|--------------------------|-----------------|
| Float charge @ 25 °C     | 2,28 V per cell |
| Temperature compensation | -18 mV per °C   |

### Temperature

#### Operating temperature range

|                |                                       |
|----------------|---------------------------------------|
| Discharge      | -15-50 °C                             |
| Charge         | -15-40 °C                             |
| Storage        | -15-40 °C                             |
| Self discharge | 3% per month. Recharge after 6 months |

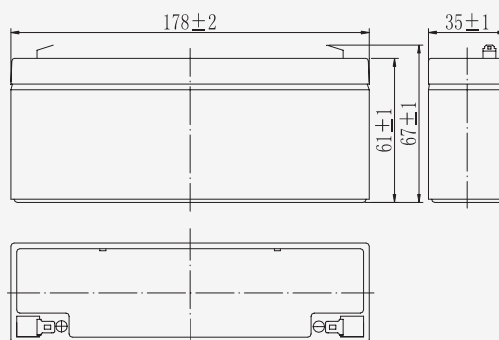
#### Capacity affected by temperature

|        |       |
|--------|-------|
| 40 °C  | 102 % |
| 25 °C  | 100 % |
| 0 °C   | 85 %  |
| -15 °C | 65 %  |

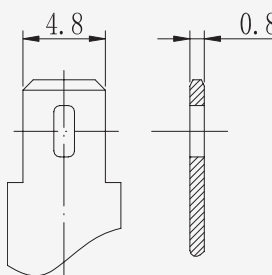


- Absorbent glass mat technology
- Recognized by UL & CE
- ABS container

### Dimensions



### Terminals



Terminal T1

NORDMAX

### Constant current discharge characteristics

#### A, 25 °C

| End Voltage/cell | 10 min | 15 min | 30 min | 60 min | 2 h  | 3 h  | 4 h  | 5 h  | 8 h  | 10 h | 20 h  |
|------------------|--------|--------|--------|--------|------|------|------|------|------|------|-------|
| 1,6              | 5,52   | 4,37   | 2,44   | 1,5    | 0,82 | 0,59 | 0,47 | 0,4  | 0,26 | 0,22 | 0,117 |
| 1,65             | 5,35   | 4,27   | 2,39   | 1,47   | 0,81 | 0,58 | 0,47 | 0,4  | 0,26 | 0,22 | 0,116 |
| 1,7              | 5,13   | 4,11   | 2,32   | 1,44   | 0,81 | 0,58 | 0,46 | 0,39 | 0,25 | 0,22 | 0,116 |
| 1,75             | 4,91   | 3,97   | 2,26   | 1,41   | 0,79 | 0,57 | 0,46 | 0,39 | 0,25 | 0,21 | 0,115 |
| 1,8              | 4,64   | 3,76   | 2,18   | 1,36   | 0,77 | 0,56 | 0,45 | 0,38 | 0,24 | 0,21 | 0,113 |

#### W, 25 °C

| End Voltage/cell | 10 min | 15 min | 30 min | 60 min | 2 h  | 3 h  | 4 h  | 5 h  | 8 h  | 10 h | 20 h |
|------------------|--------|--------|--------|--------|------|------|------|------|------|------|------|
| 1,6              | 62,3   | 49,8   | 27,9   | 17,3   | 9,56 | 6,97 | 5,59 | 4,76 | 3,1  | 2,61 | 1,4  |
| 1,65             | 60,4   | 48,6   | 27,4   | 17,1   | 9,51 | 6,93 | 5,56 | 4,73 | 3,09 | 2,6  | 1,4  |
| 1,7              | 57,9   | 46,8   | 26,5   | 16,6   | 9,42 | 6,88 | 5,52 | 4,7  | 3,05 | 2,58 | 1,39 |
| 1,75             | 55,4   | 45,2   | 25,9   | 16,3   | 9,28 | 6,83 | 5,48 | 4,67 | 3,03 | 2,57 | 1,38 |
| 1,8              | 52,3   | 42,8   | 24,9   | 15,8   | 9,04 | 6,63 | 5,31 | 4,53 | 2,95 | 2,52 | 1,35 |