

**ICS series**

**ICS-300**

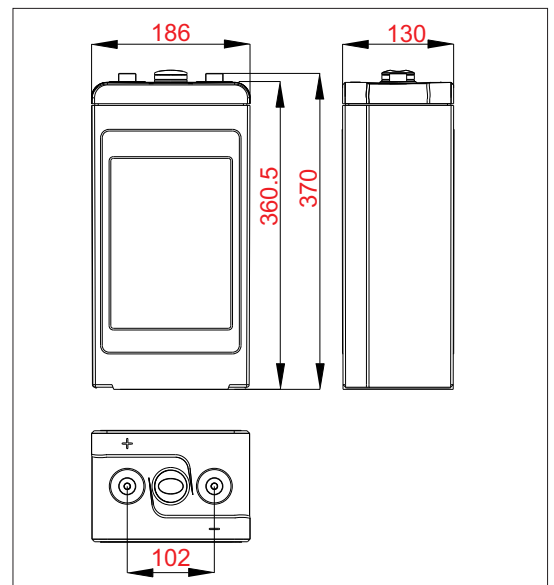
Narada's ICS series battery designed to provide highcycling and fast charge performance, idea for telecom service where power supply is unstable. With innovative structure design, high quality manufacturing and high quality material, ICS batteries are also capable of PSoC, hybrid, renewable energy storage application and other cycling/standby applications.



**Specifications**

|                            |  |            |
|----------------------------|--|------------|
| <b>Battery Model</b>       | <b>ICS-300</b>                                       |            |
| Nominal voltage            | 2V   |            |
| Capacity                   | 300Ah (10HR ,30A, 1.80V, 25°C)                       |            |
| Approx.Weight              | 22kg   |            |
| Internal Resistance        | Approx 0.42mΩ  |            |
| Max Charge Current Allowed | 75A  |            |
| Charge Voltage (25°C)      | Cycle use  | Float use  |
|                            | 2.35V/cell   | 2.25V/cell |
| Temperature Ranges         | Operation(maximum): -40°C to 55°C (-40°F to 131°F)   |            |
|                            | Operation(recommended): 15°C to 25°C ( 59°F to 77°F) |            |
|                            | Storage: -20°C to 40°C (-4°F to 104°F)               |            |
| Terminal                   | M8 Female  |            |
| Terminal Hardware          | 15 ± 1.0 N.m   |            |
| Container Material         | ABS (V0 optional)                                    |            |

**Dimensions (mm)**



**Constant Current Discharge Data Units: Amperes (25°C, 77°F)**

| End voltage per cell | 15min | 20min | 30min | 40min | 50min | 1h  | 2h  | 3h   | 5h   | 8h   | 10h  |
|----------------------|-------|-------|-------|-------|-------|-----|-----|------|------|------|------|
| 1.65V                | 360   | 320   | 265   | 230   | 210   | 172 | 105 | 80.0 | 55.0 | 38.0 | 33.0 |
| 1.70V                | 330   | 305   | 245   | 220   | 200   | 170 | 103 | 78.0 | 52.0 | 36.0 | 32.0 |
| 1.75V                | 310   | 280   | 230   | 210   | 185   | 168 | 102 | 77.0 | 50.0 | 35.0 | 31.0 |
| 1.80V                | 270   | 255   | 220   | 195   | 165   | 166 | 100 | 76.0 | 48.0 | 34.0 | 30.5 |

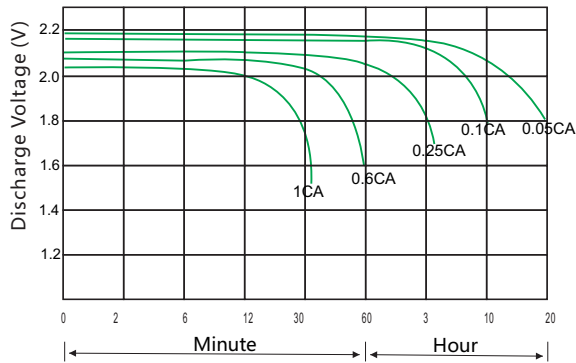
**Constant Power Discharge Data Units: Watts per cell (25°C, 77°F)**

| End voltage per cell | 15min | 20min | 30min | 40min | 50min | 1h  | 2h  | 3h  | 5h  | 8h   | 10h  |
|----------------------|-------|-------|-------|-------|-------|-----|-----|-----|-----|------|------|
| 1.65V                | 690   | 600   | 520   | 440   | 390   | 330 | 215 | 170 | 120 | 84.0 | 80.0 |
| 1.70V                | 640   | 580   | 490   | 425   | 370   | 320 | 210 | 160 | 115 | 80.5 | 75.0 |
| 1.75V                | 600   | 550   | 450   | 400   | 360   | 310 | 205 | 155 | 110 | 77.0 | 66.0 |
| 1.80V                | 530   | 480   | 420   | 360   | 315   | 305 | 200 | 145 | 105 | 73.5 | 60.0 |

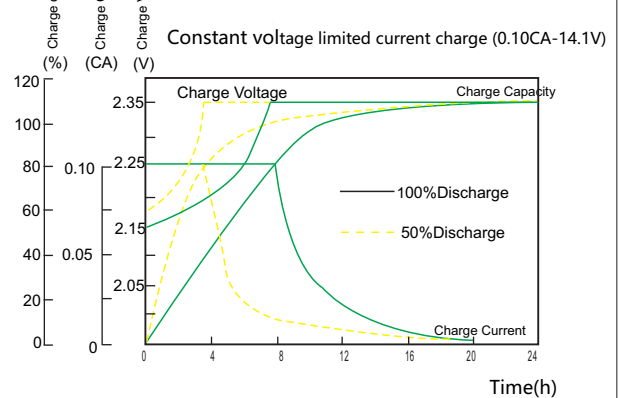
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**ICS-300**

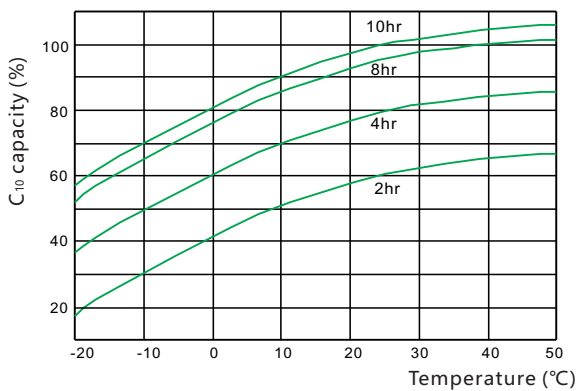
**Discharge Voltage vs Time Curve ( 25°C )**



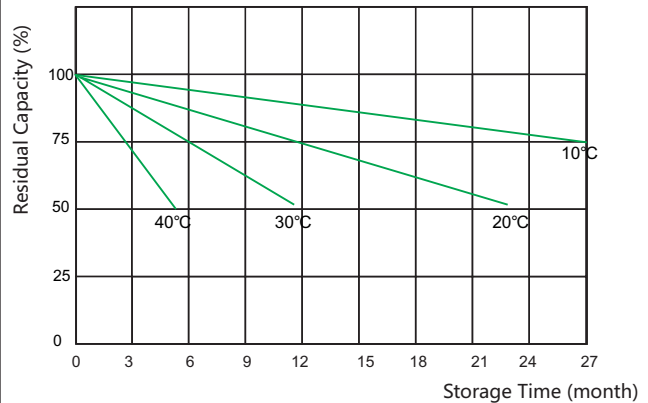
**Charge Curve (25°C)**



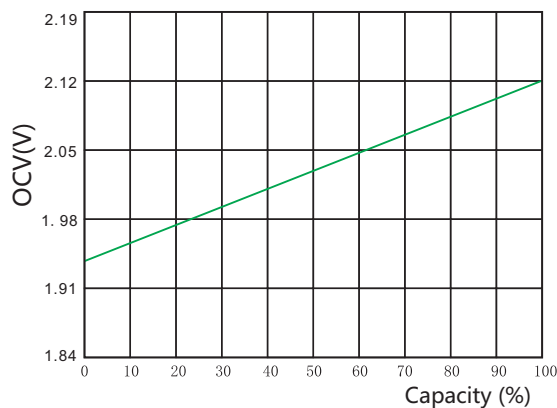
**Capacity vs temperature curve**



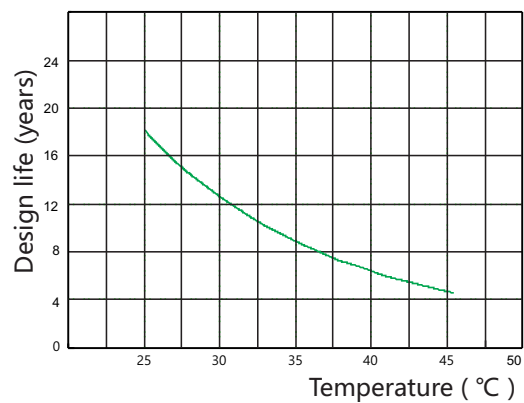
**Residual Capacity vs Storage Time**



**Capacity vs OCV curve**



**Design life vs temperature**



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