

# 2115-2116 Max. 16 W

## Programmable chargers for NiMH/NiCd batteries

### 2116 - exchangeable AC-plugs

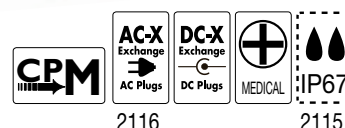


tech spec

- Universal input voltage
- CPM-Computer Programmable Microprocessor offering:
  - Charge detection options (one or more):
    - dV, dT/dt, 0 dV, Timer
  - Safety timer, dV threshold, and Temperature gradient adjustment
- Exchangeable AC and DC plugs
- Custom specifications on request
- Order mains cord separately
- Approvals:
  - Medically certified
  - Safety: EN 60601-1 ed. 3
  - UL approved



For updates: see [www.mascot.no](http://www.mascot.no)



## TECHNICAL SPECIFICATIONS

### GENERAL INPUT/OUTPUT

|                                       |                          |
|---------------------------------------|--------------------------|
| Input voltage:                        | 90-264 VAC, 50-60Hz      |
| Max. output power:                    | 16W                      |
| Trickle charge current:               | 30mA +/-15mA             |
|                                       | 10-20 cell: 25mA +/-10mA |
| Leakage current f. batt. w mains off: | < 1mA                    |
| Start timer (no -dV detection) *:     | 3 min.                   |
| Top-off timer *:                      | 1 hour                   |
| Safety timer *:                       | 2 hours                  |
| Switch frequency:                     | 40 kHz                   |
| Temperature range                     | -20°C - +40°C            |
| Efficiency (at 100% load):            | ca 80 %                  |
| Dimensions (LxWxH):                   | 90 x 45 x 32mm (2115)    |
| Weight:                               | 125g                     |

### SAFETY PROTECTION EMC

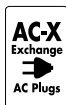
|                         |                                               |
|-------------------------|-----------------------------------------------|
| Protection              |                                               |
| • Input:                | High Breaking Capacity Fuse                   |
| • Output:               | Polyswitch fuse against reversed polarity     |
| Insulation class:       | II                                            |
| Electrical safety std.: | EN 60950, EN 60601-1<br>EN 60335-2-29         |
| EMC standards           |                                               |
| • Medical:              | EN 60601-1-2                                  |
| • Emission:             | EN 61000-6-3                                  |
| • Immunity:             | EN 61000-6-1                                  |
| Mains connection**:     | 2-pin IEC 320<br>Fixed cord on request (2115) |
| IP-code:                | 41                                            |

\* Programmable

\*\* Mains cable not included. Order separately.

## VERSIONS

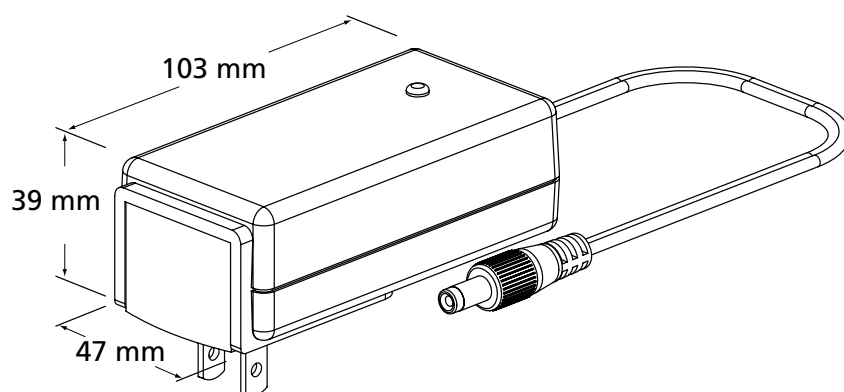
| Cells | No-load voltage | Min. out. for -dV detection | Max out. for -dV detection | -dV detection mV/cell or % | Fast charge current | Top-off charge (1h. a. -dV det.) |
|-------|-----------------|-----------------------------|----------------------------|----------------------------|---------------------|----------------------------------|
| 2     | 6,3V +/-0,7V    | 2,5V (min. 2 c.)            | 5,4V (max. 2 c.)           | 10mV/0,6%                  | 1,3A +/- 100mA      | 160mA +/- 30mA                   |
| 3-6   | 12,8V +/-0,7V   | 3,7V (min. 3 c.)            | 10,8V (max. 6 c.)          | 12mV/0,7%                  | 1,3A +/- 100mA      | 160mA +/- 30mA                   |
| 4-8   | 16,5V +/-1V     | 5,0V (min. 4 c.)            | 14,4V (max. 8 c.)          | 8mV/0,5%                   | 1,0A +/- 100mA      | 130mA +/- 30mA                   |
| 5-10  | 21V +/-1,2V     | 6,2V (min. 5 c.)            | 18V (max. 10 c.)           |                            | 0,8A +/- 100mA      | 110mA +/- 30mA                   |
| 6-12  | 24,7V +/-1,5V   | 7,5V (min. 6 c.)            | 21,6V (max. 12 c.)         |                            | 0,7A +/- 100mA      | 100mA +/- 30mA                   |
| 10-20 | 41V +/-2V       | 12,5V (min. 10 c.)          | 36V (max. 20 c.)           |                            | 0,4A +/- 50mA       | 65mA +/- 20mA                    |
| Note: |                 | min 1,25 V pr. cell         | max 1,8 V pr. cell         |                            |                     |                                  |



For 2116 only:  
 Exchangeable AC plug models

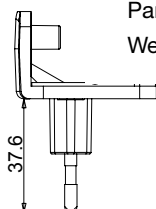


**2-pin IEC 320 C7 mains cord**  
 1800 mm EU part no. 131306  
 UK part no. 131148, US part no.  
 131147, AU part no. 013108



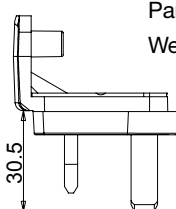
**EU plug**

Part no. 018110  
 Weight: 21 g



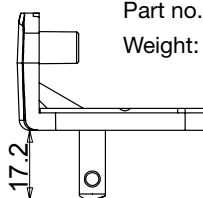
**UK plug**

Part no. 018112  
 Weight: 30 g



**US plug**

Part no. 018111  
 Weight: 14 g



**AU plug**

Part no. 018114  
 Weight: 28 g

