# Single cell range

LCE/LBE MC/MB HC/HB

Ni-Cd **Batteries** 

**Installation and** operating instructions

# Safety precautions

- WARNING: Risk of fire, explosion, or burns. Do not disassemble, heat above +70°C or incinerate.
- Never smoke while performing any operation on the battery.
- For protection, wear rubber gloves, long sleeves and appropriate splash goggles or face shield.
- The electrolyte is harmful to skin and eyes. In the event of contact with skin or eyes, wash immediately with plenty of water. If eyes are affected, flush with water, and obtain immediate medical attention.
- Remove all rings, watches and other items with metal parts before working on the battery.
- Use insulated tools.
- Avoid static electricity and take measurements for protection against electric shocks.
- Discharge any possible static electricity from clothing and/or tools by touching an earth-connected part "ground" before working on the battery.
- Ventilation, in accordance with the IEC 62485-2 standard, is mandatory during commissioning and operation.

# 1. Receiving the shipment

Do not overturn the package. Upon receipt of the goods, any transportation damage, electrolyte spillage or irregularities must be reported to the carrier and to Alcad. If the cells are shipped filled and charged the cells are ready

# 2. Storage

The battery must be stored in a dry and clean indoor location, on open, well ventilated shelves away from direct sunlight between 0°C and +30°C (+32°F and 86°F).

To ensure maximum protection of the cells always store the product in its original packaging. Do not store in direct sunlight or expose to excessive heat.

#### Cells filled and charged

- · If cells are stored filled, they must be fully charged prior to storage.
- Cells may be stored filled and charged for a period not exceeding 12 months from date of manufactory. Storage of a filled battery at temperatures above +30°C (+86°F) can result in permanent change and loss of product performance, depending on the duration of the storage above the maximum recommended temperature.

### Cells empty and discharged

- · Alcad recommends to store cells empty and discharged. Storage of a battery at temperatures above +30°C (+86°F) can result in permanent change and loss of product performance, depending on the duration of the storage above the maximum recommended temperature
- · Cells can be stored like this for many years.

### 3. Installation

### 3.1 Location

Install the battery in a dry and clean room. Avoid direct sunlight and heat

The battery will give the best performance and maximum service life when the ambient temperature is between  $+10^{\circ}\text{C}$  to  $+30^{\circ}\text{C}$  ( $+50^{\circ}\text{F}$  to  $+86^{\circ}\text{F}$ ). For cells with handles, both must be used when lifting and moving. To prevent electrolyte spillage, do not tip cells.

#### 3.2 Mounting

Verify that cells and that the connectors are correctly torqued with the appropriate polarity.

Connections between the battery and the load shall be made with nickel plated cable lugs. Tightening torque for the terminals must be:

- M6 = 11  $\pm$  1.1 N.m (97.4  $\pm$  9.8 lbf.in)
- M8 =  $20 \pm 2$  N.m (177.0  $\pm$  17.7 lbf.in)
- M10 =  $30 \pm 3$  N.m (265.0  $\pm$  26.6 lbf.in)

The connectors and terminals should be corrosion-protected by coating with a thin layer of anti-corrosion oil, grease (NO-OX) or approved equal.

#### 3.3. Ventilation

During operation the battery emits an amount of gas

mixture (oxygen and hydrogen). Ventilation inside the battery room must be adequately managed, comply with IEC 62485-2 and local regulations.

#### 3.4. Electrolyte

#### Cells delivered filled by the factory:

If electrolyte is ever spilled from a cell and the level is 30 mm below the minimum (lower) level mark, then refilling with E22 electrolyte is required. Contact your local Alcad representative for more details.

Do not top up with deionized or distilled water prior to initial charge to avoid overfilling a cell. After commissioning, when the level is stabilized, the electrolyte level should be between approximately 5 mm below maximum (upper) level

 Cells delivered empty and discharged Important: The commissioning charge must start within 24 hours but not before 4 hours after the electrolyte has been filled.

If the electrolyte is supplied dry, prepare it according to its separate electrolyte instructions sheet. The electrolyte to be used is E22.

Fill the cells about 20 mm above the minimum (lower) level mark with electrolyte. Then add 25 ml of the cell oil to each vent hole. Start the commissioning charge within 24 hours but not before 4 hours.

# 4. Commissioning Verify that the vents are closed and ventilation, in

accordance with the IEC 62485-2 standard, is provided during this operation.

A good commissioning is important and mandatory. Charge at constant current is preferable. After commissioning, the battery shall be charged permanently according to section 5. Prior and during commissioning charge, record all data requested in the commissioning report available on www.alcad.com

#### 4.1. Constant current charge

If the current limit is lower than indicated in the Table A or B, charge for a proportionally longer time

• For cells filled and charged by the factory and stored up to 6 months:

Charge for 10 h at 0.2 C<sub>5</sub> A (seeTables A or B).

- For cells filled on location or for filled cells which have been stored more than 6 months:
  - Charge for 10 h at 0.2 C<sub>5</sub> A (see Tables A or B)
  - $\bullet$  Discharge at 0.2  $\mathrm{C_5}$  A to 1.0 V/cell
  - Charge for 10 h at 0.2 C<sub>5</sub> A (see Tables A or B).

Note: At the end of the charge, the cell voltage may reach the level of 1.85 V per cell, thus the charge shall be able to supply such voltage.

When the charger maximum voltage setting is too low to supply constant current charging, divide the battery into two parts to be charged individually.

#### 4.2. Constant voltage charge

 For cells filled and charged by the factory and stored up to 6 months:

Charge for 24 h at 1.65 V/cell, current limited to 0.2  $\rm C_5$  A or charge for 48 h at 1.55 V/cell, current limited to  $0.2 \, \text{C}_{\scriptscriptstyle{5}} \, \text{A}$  (see Tables A or B).

- · For cells filled on location or for filled cells which have been stored more than 6 months:
  - Charge for 30 h at 1.65 V/cell with current limited to 0.2 Č<sub>5</sub> A (see Tables A or B)

  - Discharge at 0.2 C<sub>5</sub> A to 1.0 V/cell
    Charge for 30 h at 1.65 V/cell with current limited to 0.2 C<sub>5</sub> A or charge for 48 h at 1.55 V/cell current limited to 0.2 C<sub>5</sub> A (see Tables A or B).

The battery container temperature is to be monitored during charge. If the temperature exceeds +45°C (+113°F) during charging, then it must be stopped to reduce the temperature. The charging can be resumed when battery container temperature drops below +40°C (+104°F).

#### 4.3. Electrolyte adjustment after commissioning

After commissioning, when the level is stabilized, the electrolyte level should be between approximately 5 mm below maximum (upper) level mark.

Note: Whe full battery performance is required for capacity test purposes, the battery has to be charged in accordance with IEC 60623.

# Reliability inside



Cell Type	Capacity	Charging Current	Approx. electrolyte per cell		Cell connection bolt per
	capacity				
	C5 Ah	0.2 C5 (A)	Solid	Liquid	pole
LCE 10P	10	2,0	kg 0,24	1b 0,77	M6
ICE 15P	15	3.0	0,24	0,77	M6
LCE 22P	22	4,4	0,21	0,67	M6
LCE 30P	30	6,0	0,19	0,58	M6
LCE 34P	34	6,8	0,39	1,2	M6
LCE 40P	40	8,0	0,34	1,1	M6
LCE 47P LCE 55P	47 55	9,4	0,33	1,03	M6 M6
LCE 55P	62	12,4	0,3	0,9	M6
LCE 70P	70	14,0	0,86	2,7	M8
LCE 75P	75	15,0	0,86	2,58	M8
LCE 85P	85	17,0	0,78	2,4	M10
LCE 90P	90	18,0	0,78	2,27	M10
LCE 100P LCE 110P	100 110	20,0	0,78 0,78	2,1	M10 M10
LCE 110P	125	25.0	0,78	3.2	M10
LCE 125P	145	29,0	0,7	1,96	M10
LCE 149P	149	29,8	0,68	2,1	M10
LCE 150P	150	30,0	0,7	3	M10
LCE 165P	165	33,0	1,03	3,2	M10
LCE 176P	176	35,2	1,04		M10
LCE 185P LCE 200P	185 200	37,0 40.0	1,03	2,98	M10 M10
LCE 200P	220	44,0	0,96	2,67	M10
LCE 235P	235	47,0	1,22	4,12	M10
LCE 255P	255	51,0	1,11	3,4	M10
LCE 280P	280	56,0	1,11	3,64	M10
LCE 285P	285	57,0	1,11	3,4	M10
LCE 300P	300 330	60,0 66,0	1,59 1,59	4,8 5,28	2xM10 2xM10
LCE 330P	334	66,8	1,59	4,8	2xM10
LCE 344P	344	68,8	1,43	4,4	2xM10
LCE 360P	360	72,0	1,48	4,4	2xM10
LCE 375P	375	75,0	1,48	4,8	2xM10
LBE 400P	400	80,0	1,57	4,7	2xM10
LBE 415P	415 425	83,0	1,57 1,53	4,3	2xM10 2xM10
LBE 425P LBE 440P	425	85,0 88,0	1,73	4,7 5,2	2xM10
LBE 460P	460	92.0	1,73	4.6	2xM10
LBE 470P	470	94,0	1,69	5,2	2xM10
LBE 480P	480	96,0	1,86	5,6	2xM10
LBE 500P	500	100,0	1,86	5,6	2xM10
LBE 510P	510 550	102,0	1,86	5,2 5,8	2xM10 2xM10
LBE 550P	570	114.0	1,99	5,8	2xM10
LBE 600P	600	120,0	2,28	6,3	3xM10
LBE 620P	620	124,0	2,21	6,8	3xM10
LBE 650P	650	130,0	2,44	6,6	3xM10
LBE 700P	700	140,0	2,59	6,9	3xM10
LBE 750P LBE 762P	750 762	150,0 152,4	2,72 2,72	7,5 8,1	3xM10 3xM10
LBE 800P	800	160,0	2,72	8,1	3xM10
LBE 830P	830	166,0	2,99	8,7	3xM10
LBE 855P	855	171,0	2,89	8,9	3xM10
LBE 890P	890	178,0	3,3	9,8	4xM10
LBE 905P	905	181,0	3,18	9,8	4xM10
LBE 925P	925 980	185,0 196,0	3,45 3,58	9,2	4xM10 4xM10
TRE 1000b	1000	200.0	3,58	11,1	4xM10
LBE 1020P	1020	204,0	3,72	10,4	4xM10
LBE 1070P	1070	214,0	3,85	11,5	4xM10
LBE 1100P	1100	220,0	3,98	11,6	4xM10
LBE 1125P	1125 1150	225,0	3,87 4.31	11,9 12,9	4xM10 5xM10
LBE 1150P	1200	240.0	4,45	12,9	5xM10
LBE 1250P	1250	250,0	4,58	13,6	5xM10
LBE 1300P	1300	260,0	4,69	13,6	5xM10
LBE 1350P	1350	270,0	4,84	14,4	5xM10
LBE 1400P	1400	280,0	4,98	14,5	5xM10
LBE 1450P	1450 1500	290,0 300.0	5,31	15,8 15.6	6xM10
LBE 1500P	1500 1550	300,0	5,58 5,71	15,6 17	6xM10 6xM10
LBE 1550P	1600	320.0	5,71	16.8	6xM10
LBE 1660P	1660	332,0	5,97	17,4	6xM10
LBE 1690P	1690	338,0	5,97	17,8	6xM10
LBE 1710P	1710	342,0	5,78	17,8	6xM10

CSAh   0.2 CS (A)   Solid   Liquid   MC 9P   9   1.8   0.24   0.77   M6   MC 24P   22   4.4   0.2   0.62   M6   MC 24P   31   6.2   0.18   0.53   M6   MC 24P   37   0.78   0.72   M6   MC 24P   37   0.78   0.72   M6   MC 24P   37   0.78   0.72   M6   MC 31P   31   6.2   0.18   0.53   M6   MC 31P   37   0.78   0.09   0.94   M6   MC 50P   50   10.0   0.29   0.94   M6   M6 50P   50   10.0   0.29   0.94   M6   M6 50P   50   11.0   0.29   0.94   M6   M6 50P   50   11.0   0.29   0.95   2.45   M8   M6   M6 50P   80   18.0   0.8   2.5   M8   M6   M6 50P   80   18.0   0.8   2.5   M8   M6   M6 50P   80   18.0   0.8   2.5   M8   M6   M6   M6   M6   M6   M6   M6	Cell Type	Capacity	Charging Current	Approx. electrolyte per cell		Cell connection bolt per
MC 14P 14 2.8 0.24 0.77 M6 MC 14P 14 2.8 0.23 0.72 M6 MC 31P 31 6.2 0.18 0.53 M6 MC 31P 39 7.8 0.34 1.03 M6 MC 50P 50 10.0 0.29 0.9 M6 MC 50P 50 10.0 0.29 0.9 M6 MC 50P 50 1.0 0.82 2.64 M8 MC 50P 60 12.0 0.86 2.6 M8 MC 70P 70 14.0 0.85 2.44 M8 MC 30P 90 16.0 0.8 2.14 M8 MC 30P 90 18.0 0.8 2.14 M8 MC 30P 90 18.0 0.8 2.14 M8 MC 100P 100 2.0 0.75 2.3 M10 MC 115P 115 23.0 0.7 2.1 M10 MC 115P 115 23.0 0.7 2.1 M10 MC 115P 120 2.0 0.7 1.79 M10 MC 14PP 140 2.0 0.70 7.2 1.0 M10 MC 15P 150 30.0 1.08 3.2 M10 MC 15P 150 30.0 1.08 3.2 M10 MC 15P 150 30.0 1.08 3.2 M10 MC 15P 150 30.0 1.02 3.1 M10 MC 16SP 185 33.0 1.02 2.67 M10 MC 16SP 185 33.0 1.02 2.67 M10 MC 16SP 180 38.0 1.02 3.1 M10 MC 16SP 190 38.0 1.02 2.45 M10 MC 16SP 200 40.0 1.2 3.6 M10 MC 200P 200 40.0 1.2 3.6 M10 MC 200P 200 40.0 1.2 3.6 M10 MC 200P 200 40.0 1.2 3.7 M10 MC 25P 25D 50.0 1.62 4.8 ZM10 MC 25P 25D 50.0 1.62 4.8 ZM10 MC 25P 25D 50.0 1.62 4.8 ZM10 MC 25P 260 50.0 1.62 4.8 ZM10 MC 23P 323 66.6 1.46 4.5 ZM10 MC 33P 33S 350 7.0 1.62 4.8 ZM10 MC 33P 33S 360 7.2 2.4 ZM10 MC 33P 33S 67.0 1.62 4.8 ZM10 MC 34P 404 80.0 1.3 3.3 M10 MC 35P 35D 70.0 1.62 4.8 ZM10 MC 33P 33S 67.0 1.62 4.8 ZM10 MC 34P 404 404 80.0 1.3 3.3 XM10 MB 35OP 300 60.0 1.53 4.7 ZM10 MB 35OP 300 60.0 1.52 4.8 ZM10 MB 35OP 300 60.0 1.52 4.8 ZM10 MB 35OP 300 60.0 1.53 4.7 ZM10 MB 35OP 300 60.0 1.50 3.8 ZM10 MB 35OP 300 60.0 1.		C5 Ah	0.2 C5 (A)	Solid	Liquid	pole
MC 14P 14 2,8 0,23 0,72 M6 MC 23P 22 4,4 0,2 0,62 M6 MC 31P 31 6,2 0,18 0,53 M6 MC 39P 39 7,8 0,34 1,03 M6 MC 47P 47 9,4 0,32 0,94 M6 MC 50P 50 10,0 0,29 0,9 M6 MC 50P 55 11,0 0,29 0,84 M6 MC 50P 55 11,0 0,29 0,84 M6 MC 60P 60 12,0 0,86 2,6 M8 MC 70P 70 14,0 0,85 2,44 M8 MC 80P 80 16,0 0,8 2,5 M8 MC 80P 90 18,0 0,8 2,14 M8 MC 80P 90 18,0 0,8 2,14 M8 MC 100P 100 20,0 0,75 2,3 M10 MC 110P 110 22,0 0,75 2,01 M10 MC 130P 130 26,0 0,7 1,79 M10 MC 130P 130 26,0 0,7 1,79 M10 MC 14SP 145 29,0 1,08 3,2 M10 MC 15P 150 30,0 1,08 3,3 M10 MC 15P 150 3,0 1,02 2,67 M10 MC 15P 150 3,0 1,02 3,1 M10 MC 15P 150 3,0 1,02 3,1 M10 MC 15P 150 3,0 1,0 3,3 M10 MC 10 100 100 100 1,2 3,6 M10 MC 200P 200 40,0 1,2 3,6 M10 MC 200P 200 40,0 1,2 3,6 M10 MC 24DP 240 48,0 1,13 3,3 M10 MC 25DP 250 50,0 1,62 4,8 2xM10 MC 30DP 300 60,0 1,53 4,7 2xM10 MS 30P 300 60,0 1,52 4,8 2xM10 MS 30P 300 60,0 1,52 4,8 3xM10 MS 30P 300 60,0 1,53 4,7 2xM10 MS 30P 300 60,0 1,52 4,8 3xM10 MS 45DP 450 900 1,80 4,9 5,3 XM10 MS 45DP 450 900 1,80 4,9 5,3 XM10 MS 30P 300 60,0 1,52 4,8 3xM10 MS 30P 300 60,0 1,52 4,8 3xM10 MS 30P 300 60,0 1,53 4,7 2xM10 MS 30P 300 60,0 1,53 4,7 3xM10 MS 30P 300 60,0 1,52 4,8 3xM10 MS 30P 300 60,0 1,53 4,7 3xM10 MS 30P 300 60,0 1,52 4,8 3xM10 MS 45DP 450 900 1,80 6,5 3xM10 MS	MC 9P	9	1.8			M6
MC 21P 22		14	2,8			
MC 31P 31 6,2 0,18 0,53 M6 MC 34P 47 9,4 0,32 0,94 M6 MC 55P 55 11,0 0,29 0,9 M6 MC 55P 55 11,0 0,29 0,94 M6 MC 56P 55 11,0 0,29 0,94 M6 MC 56P 55 11,0 0,29 0,94 M6 MC 56P 60 12,0 0,86 2,6 M8 MC 70P 70 14,0 0,85 2,44 M8 MC 30P 80 16,0 0,8 2,5 M8 MC 30P 90 18,0 0,8 2,5 M8 MC 30P 90 18,0 0,8 2,14 M8 MC 10P 100 20,0 0,75 2,3 M10 MC 110P 110 22,0 0,75 2,01 M10 MC 113P 115 23,0 0,7 2,1 M10 MC 13P 130 26,0 0,7 1,79 M10 MC 13P 140 28,0 1,08 3,2 M10 MC 15P 150 30,0 1,02 2,67 M10 MC 15P 150 30,0 1,02 3,1 M10 MC 15P 150 3,1 M10 MC 15P 15D 3,1 M10 MC 15P 15D 3,1 M10 MC 15P 15P 15P 15P 15P 15P 15P 3,1 M10 MC 15P 15P 3,1 M10 MC 15P 15P 15P 3,1 M10 MC 15P 15P 15P 3,1 M10 MC 15P 15		22	4.4			
MC 39P 39 7,8 0,34 1,03 M6 MC 450P 50 10,0 0,29 0,9 M6 MC 55P 55 11,0 0,29 0,84 M6 MC 56P 60 12,0 0,86 2,6 M8 MC 70P 70 14,0 0,85 2,44 M8 MC 80P 80 16,0 0,8 2,5 M8 MC 70P 100 12,0 0,8 2,14 M8 MC 100P 100 12,0 0,75 2,3 M10 MC 110P 110 22,0 0,75 2,1 M10 MC 115P 115 23,0 0,7 2,1 M10 MC 115P 115 23,0 0,7 2,1 M10 MC 115P 125 23,0 1,08 3,2 M10 MC 140P 140 28,0 1,08 3,2 M10 MC 150P 150 30,0 1,08 3,2 M10 MC 150P 150 30,0 1,08 2,9 M10 MC 158P 165 33,0 1,02 2,67 M10 MC 170P 170 34,0 1,02 3,1 M10 MC 190P 190 38,0 1,22 3,7 M10 MC 190P 190 38,0 1,26 3,8 M10 MC 200P 200 40,0 1,2 3,6 M10 MC 215P 215 43,0 1,2 3,72 M10 MC 220P 220 44,0 1,13 3,3 M10 MC 240P 240 48,0 1,13 3,3 M10 MC 240P 240 48,0 1,13 3,3 M10 MC 250P 250 50,0 1,62 4,8 22M10 MC 28SP 285 570 1,62 4,8 22M10 MC 28SP 285 570 1,62 4,8 22M10 MC 310P 310 6,0 1,73 4,8 22M10 MC 313P 310 6,0 1,73 4,7 22M10 MC 313P 310 6,0 1,73 5,3 22M10 MB 350P 360 72,0 1,62 5,8 22M10 MB 350P 370 74,0 1,81 4,8 22M10 MB 350P 370 77,0 1,73 5,8 22M10 MB 350P 370 77,0 1,73 5,8 22M10 MB 350P 370 77,0 1,73 5,8 22M10 MB 350P 370 74,0 1,81 4,8 22M10 MB 360P 360 72,0 1,73 5,8 22M10 MB 360P 360 72,0 1,73 5,8 32M10 MB 360P 360 72,0 1,73	MC 31P	31	6,2	0,18	0,53	M6
MC 50P 50 10,0 0,29 0,9 M6 MC 50P 60 12,0 0,86 2,66 M8 MC 70P 70 14,0 0,85 2,44 M8 MC 80P 80 16,0 0,8 2,5 M8 MC 90P 90 18,0 0,8 2,14 M8 MC 90P 90 18,0 0,8 2,14 M8 MC 100P 100 20,0 0,75 2,3 M10 MC 110P 110 22,0 0,75 2,3 M10 MC 110P 110 22,0 0,75 2,3 M10 MC 110P 110 22,0 0,75 2,1 M10 MC 115P 115 23,0 0,7 2,1 M10 MC 13D 130 26,0 0,7 1,79 M10 MC 140P 140 28,0 1,08 3,2 M10 MC 150P 150 30,0 1,18 3,2 M10 MC 150P 150 30,0 1,18 3,2 M10 MC 150P 150 30,0 1,18 3,2 M10 MC 150P 150 3,3 M10,2 2,67 M10 MC 150P 150 3,3 M10,2 2,67 M10 MC 20D 200 40,0 1,2 3,1 M10 MC 20D 200 40,0 1,2 3,6 M10 MC 20D 200 40,0 1,2 3,6 M10 MC 20D 200 40,0 1,2 3,6 M10 MC 22DP 220 44,0 1,13 3,3 M10 MC 24DP 240 48,0 1,13 3,3 M10 MC 25DP 250 50,0 1,62 4,8 2xM10 MC 25DP 250 50,0 1,62 4,8 2xM10 MC 25DP 250 50,0 1,62 4,8 2xM10 MC 28SP 285 5,0 1,62 4,8 2xM10 MC 310P 310 6,0 1,55 4,7 2xM10 MC 310P 310 6,0 1,55 4,7 2xM10 MC 33SP 335 670 1,49 4,4 2xM10 MC 33SP 335 670 1,49 4,4 2xM10 MC 33SP 335 670 1,49 4,4 2xM10 MC 33SP 385 670 1,49 4,4 2xM10 MC 33SP 385 670 1,62 4,8 2xM10 MB 360P 360 72,0 1,73 5 2xM10 MB 360P 360 72,0 1,73 5 2xM10 MB 360P 460 92,0 1,55 4,7 4xM10 MB 360P 360 72,0 1,73 5 2xM10 MB 360P 460 92,0 1,55 4,7 4xM10 MB 360P 460 92,0 1,55 3,8 XM10 MB 460P 460 92,0 2,0 3,5,8 2xM10 MB 460P 460 92,0 3,5,8 3xM10 MB 555P 575 115,0 2,72 8,6 3xM10 MB 900P 900 180,0 4,66 1,25 5xM10 MB 150P 1150 230,0 5,07 15,7 5xM10 MB 160P 1000 200,0 4,88 14,3 5xM10 MB 160P 1000 200,			7,8			
MC 56P	MC 47P		9,4	0,32	0,94	
MC 20P						
MC 200P 90 18,0 0,85 2,44 M8 MC 200P 90 18,0 0,88 2,55 M8 MC 100P 100 20,0 0,75 2,3 M10 MC 110P 110 22,0 0,75 2,3 M10 MC 110P 110 22,0 0,75 2,3 M10 MC 113P 115 23,0 0,7 2,1 M10 MC 130P 130 26,0 0,7 1,79 M10 MC 145P 145 29,0 1,08 3,2 M10 MC 150P 150 30,0 1,08 3,2 M10 MC 150P 150 30,0 1,08 3,2 M10 MC 155P 165 33,0 1,02 2,67 M10 MC 185P 185 37,0 0,97 2,45 M10 MC 185P 185 37,0 0,97 2,45 M10 MC 200P 200 40,0 1,2 3,6 M10 MC 200P 200 40,0 1,2 3,6 M10 MC 220P 220 44,0 1,13 3,3 M10 MC 220P 220 44,0 1,13 3,3 M10 MC 220P 220 44,0 1,13 3,3 M10 MC 240P 240 48,0 1,13 3,3 M10 MC 250P 250 50,0 1,62 4,8 2xM10 MC 277P 277 55,4 1,62 4,8 2xM10 MC 232P 323 64,6 1,46 4,5 2xM10 MC 310P 310 62,0 1,55 4,74 2xM10 MC 323P 323 64,6 1,46 4,5 2xM10 MC 323P 323 66,6 1,46 4,5 2xM10 MC 323P 323 66,6 1,46 4,5 2xM10 MC 323P 323 66,0 1,62 4,8 2xM10 MC 323P 323 66,0 1,62 4,8 2xM10 MC 333P 335 67,0 1,49 4,4 2xM10 MB 350P 350 70,0 1,62 4,8 3xM10 MB 360P 360 72,0 1,73 5 2xM10 MB 360P 360 72,0 1,73 5 3xM10 MB 450P 450 90,0 1,98 6,1 2xM10 MB 360P 450 90,0			11,0		0,84	
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MC 155P   165   33.0   1.02   2.67   M10   MC 170P   170   34.0   1.02   3.1   M10   MC 185P   185   37.0   0.97   2.45   M10   MC 185P   185   37.0   0.97   2.45   M10   MC 200P   200   40.0   1.2   3.6   M10   MC 200P   200   40.0   1.2   3.6   M10   MC 200P   200   40.0   1.2   3.6   M10   MC 215P   215   43.0   1.2   3.7   M10   MC 220P   220   44.0   1.13   3.3   M10   MC 250P   250   50.0   1.62   4.8   2.4M10   MC 233P   238   238   57.0   1.62   5.08   2.4M10   MC 330P   300   60.0   1.53   4.7   2.4M10   MC 332P   323   64.6   1.46   4.5   2.4M10   MC 332P   323   64.6   1.46   4.5   2.4M10   MB 350P   350   70.0   1.62   4.8   2.4M10   MB 360P   360   72.0   1.73   5   2.4M10   MB 360P   360   72.0   1.73   5   2.4M10   MB 360P   360   72.0   1.73   5   2.4M10   MB 440P   404   80.8   1.92   5.9   2.4M10   MB 440P   440   80.8   1.92   5.9   2.4M10   MB 440P   440   80.8   1.92   5.9   2.4M10   MB 450P   450						
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MB 1320P 1320 264,0 6,42 18,8 6xM10			254,0	6,31		
			264,0	6,42		6xM10
	MB 1390P		278,0	6,09	17,4	6xM10
MB 1440P 1440 288,0 6,09 17,7 6xM10 MB 1465P 1465 293,0 6,09 17,7 6xM10					17,7	

Cell Type	Capacity	Charging Current	Approx. electrolyte per cell		Cell connection bolt per
	C5 Ah	0.2 C5 (A)	Solid kg	Liquid lb	pole
HC 9P	9	1,8	0,23	0,73	M6
HC 12P	12	2,4	0,21	0,66	M6
HC 17P	17	3,4	0,19	0,6	M6
HC 21P	21	4,2	0,35	1,11	M6
HC 25P	25	5,0	0,33	1,05	M6
HC 29P HC 34P	29 34	5,8 6.8	0,31	0,98	M6 M6
HC 34P	40	8,0	0,29	2,58	M8
HC 50P	50	10,0	0,83	2,42	M8
HC 60P	60	12,0	0,84	2,26	M10
HC 70P	70	14,0	0,75	2,1	M10
HC 80P	80	16,0	0,71	1,95	M10
HC 90P	90	18,0	1,1	3,12	M10
HC 100P	100	20,0	1,06	2,96	M10
HC 110P	110	22,0	1,02	2,8	M10
HC 120P HC 130P	120 130	24,0 26.0	0,98	2,65 4.09	M10 M10
HC 130P	145	29,0	1,25	3.85	M10
HC 155P	155	31,0	1,15	3,6	M10
HC 170P	170	34,0	1,68	5,2	2xM10
HC 185P	185	37,0	1,63	5,26	2xM10
HC 190P	190	38,0	1,56	4,8	2xM10
HB 195P	195	39,0	1,52	4,4	2xM10
HB 205P	205	41,0	1,47	4,6	2xM10
HC 210P HB 218P	210 218	42,0 43,6	1,53	4,76 5,4	2xM10 2xM10
HB 218P HB 230P	218	43,6	1,75	5,4	2xM10 2xM10
HB 235P	235	47,0	1,76	5,7	2xM10
HB 244P	244	48,8	1,88	5,8	2xM10
HB 255P	255	51,0	1,79	5,2	2xM10
HB 265P	265	53,0	2,4	6,8	3xM10
HB 270P	270	54,0	1,98	6,1	2xM10
HB 280P	280	56,0	2,17	6,6	2xM10
HB 293P	293 295	58,6 59,0	2,14	6,6 6,5	2xM10 3xM10
HB 295P HB 305P	305	61,0	2,28	6,5	2xM10
HB 325P	325	65,0	2,42	7,5	3xM10
HB 334P	334	66,8	2,66	8,2	3xM10
HB 345P	345	69,0	2,84	8,4	3xM10
HB 355P	355	71,0	2,63	8,6	3xM10
HB 365P	365	73,0	2,79	8,6	3xM10
HB 375P	375 385	75,0	2,76	8,5	3xM10
HB 385P HB 395P	385	77,0 79,0	2,69 3,03	7,8 8,7	3xM10 4xM10
HB 395P	400	80.0	2,88	8.9	3xM10
HB 410P	410	82.0	3,09	9,5	3xM10
HB 420P	420	84,0	3,26	9,8	3xM10
HB 440P	440	88,0	3,21	9,9	3xM10
HB 450P	450	90,0	3,18	9,8	3xM10
HB 460P	460	92,0	3,11	9,7	3xM10
HB 470P HB 473P	470 473	94,0 94.6	3,51	11,4	4xM10 4xM10
HB 473P HB 484P	473 484	94,6 96.8	3,83 3,77	11,8 11.6	4xM10 4xM10
HB 484P	484	98,0	3,77	10,9	5xM10
HB 510P	510	102,0	3,58	10,4	4xM10
HB 523P	523	104,6	3,8	11,7	4xM10
HB 537P	537	107,4	4	12,3	4xM10
HB 560P	560	112,0	4,34	13,1	4xM10
HB 576P	576	115,2	4,32	13,3	4xM10
HB 589P	589 590	117,8	4,29	13,2	4xM10 5xM10
HB 590P HB 600P	600	118,0 120.0	4,39 4,19	14,3 12,9	5xM10 4xM10
HB 600P	615	120,0	4,19	12,9	4xM10
HB 630P	630	126,0	4,55	14	5xM10
HB 640P	640	128,0	4,48	13	5xM10
HB 655P	655	131,0	4,67	14,4	5xM10
HB 670P	670	134,0	4,86	15	5xM10
HB 680P	680 690	136,0	5,07	15,6	5xM10 5xM10
HB 690P HB 705P	690 705	138,0 141,0	5,3 5,43	16,3	5xM10 5xM10
HB 705P	705	141,0	5,43	16,4 16,5	5xM10
HB 753P	753	150,6	5,33	16,4	5xM10
HB 765P	765	153,0	5,18	16,2	5xM10
HB 785P	785	157,0	5,59	17,2	6xM10
HB 800P	800	160,0	5,52	17	6xM10
HB 825P	825	165,0	6,08	18,7	6xM10
HB 840P	840	168,0	6,27	19,3	6xM10
HB 865P	865 890	173,0	5,92	18,1	6xM10
HB 890P	890	178,0	6,34	19,5	6xM10
HB 910P	910	182,0	6,27	19,3	6xM10

# 5. Charging in service

Maintaining the recommended battery charging voltage is very important to insure long life to the battery. The battery charger must be set to the recommended charging values

# 5.1. Continuous parallel operation, with occasional battery discharge

Recommended charging voltage (+20°C to +25°C / +68°F to +77°F):

Single level charge: 1.43 - 1.50 V/cell.

#### Two level charge:

- Float level
- =  $1.42 \pm 0.01$  V/cell for L cells
- = 1.40  $\pm$  0.01 V/cell for M cells and H cells
- High rate (boost) level:
- = 1.47 1.70 V/cell for L cells
- = 1.45 1.70 V/cell for M cells and H cells.

A high voltage will increase the speed and efficiency of the recharging

# 5.2. Buffer operation, where the load exceeds the

charger rating. Recommended charging voltage (+20°C to +25°C / +68°F to +77°F): 1.50 - 1.60 V/cell.

# 6. Preventive maintenance

It is good practice with any system to carry out an inspection of the system once per year or at the recommended topping-up interval period to ensure that the charging system, the battery and the ancillary electronics are all functioning correctly. Additionally, follow your standard preventative maintenance procedures.

- Keep the battery clean using only water. Do not use a wire brush or solvents of any kind. Vent caps can be rinsed in clean water if necessary.
- Check the charging voltage. It is important that the recommended charging voltage remains unchanged.
   The charger should be checked and recorded at least once yearly. If a cell float is found below 1.35 V, high rate charge is recommended to apply to the cell concerned.
- High water consumption is usually caused by an improper voltage setting or voltage drift that is above the recommended in-service charging voltages. To maximize the topping-up interval check the charging voltage and adjust as required.
- Visually check the electrolyre level. Never let the level fall below the minimum level mark. Use only distilled or deionized water to top-up. Topping up of the battery shall be carried out when battery is fully charged. Experience will tell the time interval between topping-up.

Note that all these maintenance recommendations followed the IEEE 1106 standard 'Recommended Practice for Installation, Maintenance, Testing and Replacement of Vented Nickel-Cadmium Batteries for Stationary Applications'.

 Ensure all terminals and connectors are coated with a thin layer of anti-corrosion oil, anti-corrosion grease (NO-OX) or approved equal.

## 6.1. Changing electrolyte

In most stationary battery applications, the electrolyte will retain its effectiveness for the life of the battery. However, under special battery operating conditions, if the electrolyte is found to be carbonated, the battery performance can be restored by replacing the electrolyte.

The electrolyte type to be used for replacement in these

cells is: E13. Refer to "Electrolyte Instructions".

# 7. Environment

To protect the environment all used batteries must be recycled. Contact your local Alcad representative for further information.