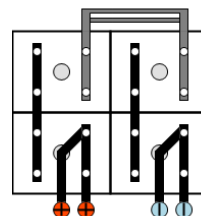




## LCE360P - Cell data sheet

### Classification

|                          |           |                                                                                   |                  |        |
|--------------------------|-----------|-----------------------------------------------------------------------------------|------------------|--------|
| Brand                    | Alcad     |  | Wiring principle | Normal |
| Cell type                | LCE360P   |                                                                                   |                  |        |
| Cell P/N                 | 311034351 |                                                                                   |                  |        |
| Capacity at 5 hours rate | 360 Ah    |                                                                                   |                  |        |
| IEC Designation          | KL360P    |                                                                                   |                  |        |
| According to IEC 60623   |           |                                                                                   |                  |        |



### Physical data

|                |        |                 |         |
|----------------|--------|-----------------|---------|
| Overall height | 413 mm | Weight per cell | 16,6 Kg |
| Cell height    | 405 mm |                 |         |
| Width          | 196 mm |                 |         |
| Length         | 126 mm |                 |         |

### Construction

|                    |                 |                           |       |
|--------------------|-----------------|---------------------------|-------|
| Container material | Polypropylene   | No. of terminals/polarity | 2     |
| Separator type     | Grid            | Terminal material         | Steel |
| Connection torque  | 30,0 +/- 3,0 Nm | Vent type                 |       |
| Terminal size      | M10 SW 16 mm    | Handle                    | No    |

### Plates

|                |        |                |        |
|----------------|--------|----------------|--------|
| Positive       |        | Negative       |        |
| Type of plates | Pocket | Type of plates | Pocket |

### Electrolyte

|                              |            |                   |       |
|------------------------------|------------|-------------------|-------|
| Electrolyte type: Renewal    | E13        | Max/Min           | 50 mm |
| Electrolyte type: Initial    | E22        | Vent oil quantity |       |
| Electrolyte per cell: Liquid | 4,4 liters |                   |       |

### Connection

|                                          |                    |                              |                    |
|------------------------------------------|--------------------|------------------------------|--------------------|
| Cable area of internal connection cables | 35 mm <sup>2</sup> | End-lug (and external cable) | 35 mm <sup>2</sup> |
|------------------------------------------|--------------------|------------------------------|--------------------|



## LCE360P - Cell data sheet

### Charging

|                      |             |                         |             |
|----------------------|-------------|-------------------------|-------------|
| Float voltage        | 1,42 V/Cell | High rate voltage (min) | 1,47 V/Cell |
| Single-level voltage | 1,43 V/Cell |                         |             |

### Resistance/Short circuit

|                     |           |                       |        |
|---------------------|-----------|-----------------------|--------|
| Internal resistance | 0,46 mOhm | Short circuit current | 2995 A |
|---------------------|-----------|-----------------------|--------|

### Performance data

#### Current discharge

After prolonged float charge of fully charged cells. Available amperes at +20°C +/- 5°C (+68°F +/- 9°F)

| V/Cell | 10h  | 8h   | 5h   | 3h   | 2h   | 1,5h | 1h  | 30m | 20m | 15m | 10m | 5m  | 1m  | 30s | 5s  | 1s  |
|--------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1      | 37,1 | 45,9 | 72,0 | 115  | 154  | 185  | 237 | 306 | 343 | 368 | 396 | 454 | 504 | 540 | 648 | 696 |
| 1,05   | 36,8 | 45,7 | 71,2 | 112  | 139  | 159  | 198 | 259 | 286 | 297 | 329 | 376 | 405 | 443 | 532 | 578 |
| 1,1    | 36,0 | 44,1 | 67,8 | 93,9 | 118  | 136  | 160 | 201 | 218 | 239 | 263 | 276 | 330 | 360 | 438 | 481 |
| 1,14   | 35,2 | 41,5 | 59,6 | 81,4 | 97,6 | 108  | 125 | 159 | 171 | 177 | 199 | 232 | 269 | 294 | 366 | 405 |
| 1,16   | 33,0 | 37,8 | 51,6 | 69,9 | 83,3 | 90,1 | 102 | 134 | 149 | 161 | 177 | 211 | 246 | 268 | 334 | 370 |

#### Power discharge

Available power (W), after prolonged float charged of fully charged cells at +20°C +/- 5°C (+68°F +/- 9°F)

| V/Cell | 10h  | 8h   | 5h   | 3h   | 2h   | 1,5h | 1h  | 30m | 20m | 15m | 10m | 5m  | 1m  | 30s | 5s  | 1s  |
|--------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1      | 43,0 | 52,4 | 80,5 | 123  | 161  | 191  | 242 | 309 | 345 | 370 | 397 | 454 | 504 | 540 | 648 | 696 |
| 1,05   | 42,8 | 52,7 | 80,9 | 123  | 151  | 171  | 211 | 273 | 301 | 312 | 346 | 395 | 426 | 465 | 559 | 606 |
| 1,1    | 42,1 | 51,3 | 78,2 | 106  | 132  | 152  | 178 | 222 | 240 | 263 | 289 | 303 | 363 | 396 | 482 | 529 |
| 1,14   | 41,3 | 48,6 | 69,7 | 94,2 | 112  | 124  | 143 | 182 | 195 | 202 | 227 | 264 | 307 | 335 | 418 | 462 |
| 1,16   | 38,8 | 44,5 | 60,7 | 81,7 | 97,2 | 105  | 119 | 156 | 173 | 187 | 205 | 245 | 285 | 311 | 388 | 429 |



## LCE360P - Cell data sheet

### Kt Factor

#### Current discharge

After prolonged float charge of fully charged cells. Kt factor at +20°C +/- 5°C (+68°F +/- 9°F)

| V/Cell | 10h  | 8h   | 5h   | 3h   | 2h   | 1,5h | 1h   | 30m  | 20m  | 15m  | 10m  | 5m   | 1m   | 30s  | 5s   | 1s   |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1      | 9,7  | 7,85 | 5,00 | 3,12 | 2,34 | 1,95 | 1,52 | 1,18 | 1,05 | 0,98 | 0,91 | 0,79 | 0,71 | 0,67 | 0,56 | 0,52 |
| 1,05   | 9,8  | 7,88 | 5,05 | 3,23 | 2,58 | 2,26 | 1,81 | 1,39 | 1,26 | 1,21 | 1,09 | 0,96 | 0,89 | 0,81 | 0,68 | 0,62 |
| 1,1    | 10,0 | 8,16 | 5,31 | 3,83 | 3,05 | 2,65 | 2,25 | 1,79 | 1,66 | 1,51 | 1,37 | 1,31 | 1,09 | 1,00 | 0,82 | 0,75 |
| 1,14   | 10,2 | 8,68 | 6,04 | 4,42 | 3,69 | 3,33 | 2,89 | 2,26 | 2,11 | 2,03 | 1,81 | 1,55 | 1,34 | 1,22 | 0,98 | 0,89 |
| 1,16   | 10,9 | 9,5  | 6,98 | 5,15 | 4,32 | 3,99 | 3,52 | 2,69 | 2,41 | 2,23 | 2,04 | 1,70 | 1,47 | 1,34 | 1,08 | 0,97 |

#### Power discharge

Kt factor power, after prolonged float charged of fully charged cells at +20°C +/- 5°C (+68°F +/- 9°F)

| V/Cell | 10h  | 8h   | 5h   | 3h   | 2h   | 1,5h | 1h   | 30m  | 20m  | 15m  | 10m  | 5m   | 1m   | 30s  | 5s   | 1s   |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 1      | 8,38 | 6,87 | 4,47 | 2,92 | 2,24 | 1,88 | 1,49 | 1,17 | 1,04 | 0,97 | 0,91 | 0,79 | 0,71 | 0,67 | 0,56 | 0,52 |
| 1,05   | 8,41 | 6,83 | 4,45 | 2,93 | 2,38 | 2,11 | 1,70 | 1,32 | 1,19 | 1,15 | 1,04 | 0,91 | 0,85 | 0,77 | 0,64 | 0,59 |
| 1,1    | 8,55 | 7,01 | 4,60 | 3,39 | 2,72 | 2,37 | 2,02 | 1,62 | 1,50 | 1,37 | 1,24 | 1,19 | 0,99 | 0,91 | 0,75 | 0,68 |
| 1,14   | 8,71 | 7,41 | 5,17 | 3,82 | 3,20 | 2,90 | 2,52 | 1,98 | 1,85 | 1,78 | 1,58 | 1,36 | 1,17 | 1,07 | 0,86 | 0,78 |
| 1,16   | 9,27 | 8,09 | 5,94 | 4,41 | 3,71 | 3,43 | 3,03 | 2,31 | 2,08 | 1,93 | 1,76 | 1,47 | 1,26 | 1,16 | 0,93 | 0,84 |