



## XHP24 - Cell data sheet

### Classification

|                          |        |
|--------------------------|--------|
| Brand                    | Alcad  |
| Cell type                | XHP24  |
| Cell P/N                 | 210673 |
| Capacity at 5 hours rate | 24 Ah  |
| IEC Designation          | KH24P  |
| According to IEC 60623   |        |



### Physical data

|                        |        |                         |        |
|------------------------|--------|-------------------------|--------|
| Overall height         | 276 mm |                         |        |
| Width                  | 86 mm  | Weight per cell         | 1,6 Kg |
| Length                 | 47 mm  | Block length - 2 cells  |        |
| Block length - 3 cells |        | Block length - 4 cells  |        |
| Block length - 5 cells |        | Block length - 6 cells  |        |
| Block length - 7 cells |        | Block length - 8 cells  |        |
| Block length - 9 cells |        | Block length - 10 cells |        |

### Construction

|                    |                 |                           |                      |
|--------------------|-----------------|---------------------------|----------------------|
| Container material | Polypropylene   | No. of terminals/polarity | 1                    |
| Separator type     | Microporous     | Terminal material         | Copper               |
| Connection torque  | 10,0 +/- 2,0 Nm | Vent type                 | flame arresting vent |
| Terminal size      | M10             |                           |                      |

### Plates

|                |          |                |                |
|----------------|----------|----------------|----------------|
| Positive       |          | Negative       |                |
| Type of plates | Sintered | Type of plates | Plastic bonded |

ALCAD confidential and proprietary. The data herein given are for information purposes only and are not binding on ALCAD. They may be modified without prior notice. Please contact an ALCAD representative in order to obtain confirmation of the above data.

Visit our website at [www.alcad.com](http://www.alcad.com)

Version: 1.4, Last updated on 01/2015

P 1/2



## XHP24 - Cell data sheet

### Electrolyte

|                              |            |                   |       |
|------------------------------|------------|-------------------|-------|
| Electrolyte type: Renewal    |            | Max/Min           | 55 mm |
| Electrolyte type: Initial    | E4         | Vent oil quantity |       |
| Electrolyte per cell: Liquid | 0,4 liters |                   |       |

### Connection

|            |                    |
|------------|--------------------|
| Cable area | 25 mm <sup>2</sup> |
|------------|--------------------|

### Charging

|                      |             |                         |             |
|----------------------|-------------|-------------------------|-------------|
| Float voltage        | 1,4 V/Cell  | High rate voltage (min) | 1,45 V/Cell |
| Single-level voltage | 1,41 V/Cell |                         |             |

### Resistance/Short circuit

|                     |           |                       |       |
|---------------------|-----------|-----------------------|-------|
| Internal resistance | 1,67 mOhm | Short circuit current | 938 A |
|---------------------|-----------|-----------------------|-------|

### Performance data

#### Stationary performance

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  |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|
| <b>1</b>    | 2,45 | 3,05 | 4,80 | 7,95 | 11,8 | 15,7 | 23,1 | 45,3 | 64,9 | 77,4 | 100  | 114  | 141  | 160  | 200 | 218 |
| <b>1,05</b> | 2,43 | 3,02 | 4,76 | 7,89 | 11,8 | 15,5 | 22,9 | 43,6 | 60,0 | 70,6 | 82,8 | 96,0 | 120  | 133  | 171 | 185 |
| <b>1,1</b>  | 2,40 | 2,98 | 4,71 | 7,74 | 11,4 | 15,0 | 21,6 | 38,1 | 49,0 | 55,8 | 64,9 | 75,0 | 100  | 114  | 141 | 160 |
| <b>1,14</b> | 2,37 | 2,94 | 4,63 | 7,41 | 10,9 | 14,0 | 18,8 | 32,9 | 40,0 | 45,3 | 52,2 | 60,0 | 80,0 | 92,3 | 120 | 133 |

#### Engine starting performance

For a fully charged cell by a constant current charge according to IEC 60623 standard at +20°C +/- 5°C (+68°F +/- 9°F), 30 seconds discharge down to 0,85 V

|                   |       |
|-------------------|-------|
| Available amperes | 271 A |
|-------------------|-------|

*ALCAD confidential and proprietary. The data herein given are for information purposes only and are not binding on ALCAD. They may be modified without prior notice. Please contact an ALCAD representative in order to obtain confirmation of the above data.*

Visit our website at [www.alcad.com](http://www.alcad.com)

Version: 1.4, Last updated on 01/2015