



PV710 - Cell data sheet

Classification

| | |
|--------------------------|-------------|
| Brand | Alcad |
| Cell type | PV710 |
| Cell P/N | 31-10022-8* |
| Capacity at 5 hours rate | 650 Ah |
| IEC Designation | KGL 650 P |
| According to IEC 62259 | |



Physical data

| | | | |
|------------------------|--------|-------------------------|---------|
| Overall height | 405 mm | | |
| Width | 195 mm | Weight per cell | 28,2 Kg |
| Length | 219 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 | 3 |
| Separator type | Felt | Terminal material | Steel |
| Connection torque | 30,0 +/- 3,0 Nm | Vent type | flame arresting vent (large) |
| Terminal size | M10 | | |

Plates

| | | | |
|----------------|------------------------------|----------------|------------------------------|
| Positive | | Negative | |
| Type of plates | Ultra Low Maintenance Pocket | Type of plates | Ultra Low Maintenance Pocket |

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Electrolyte

| | | | |
|------------------------------|------------|-------------------|-------|
| Electrolyte type: Renewal | E13 | Max/Min | 50 mm |
| Electrolyte type: Initial | E29 | Vent oil quantity | |
| Electrolyte per cell: Liquid | 6,6 liters | | |

Connection

| | |
|------------|--------------------|
| Cable area | 70 mm ² |
|------------|--------------------|

Charging

| | | | |
|----------------------|-------------|-------------------------|-------------|
| Float voltage | 1,42 V/Cell | High rate voltage (min) | 1,45 V/Cell |
| Single-level voltage | 1,42 V/Cell | | |

Resistance/Short circuit

| | | | |
|---------------------|-----------|-----------------------|--------|
| Internal resistance | 0,37 mOhm | Short circuit current | 3937 A |
|---------------------|-----------|-----------------------|--------|

Performance data

Photovoltaic performance

For a fully charged cell after a constant current charge according to IEC 62259 standard at +20°C +/- 5°C (+68°F +/- 9°F)

| | |
|---------------|-----------|
| V/Cell | 1h |
| 1 | 915 |