



PV455 - Cell data sheet

Classification

Brand	Alcad
Cell type	PV455
Cell P/N	31-10017-8*
Capacity at 5 hours rate	420 Ah
IEC Designation	KGL 420 P
According to IEC 62259	



Physical data

Overall height	405 mm		
Width	195 mm	Weight per cell	18,3 Kg
Length		Block length - 2 cells	278 mm
Block length - 3 cells	411 mm	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	2
Separator type	Felt	Terminal material	Steel
Connection torque	30,0 +/- 3,0 Nm	Vent type	flame arresting vent
Terminal size	M10		(large)

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	4,3 liters		

Connection

Cable area	120 mm ²
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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	0,58 mOhm	Short circuit current	2544 A
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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	592