

Applications and Key Benefits

- + Solar 2V cells
up to 3.900 Ah real capacity at C120 1.85 VPC
- + Designed for regular and long deep discharge
Ideal for:
 - Renewable energy islands (Solar / Wind)
 - Off-grid applications: BTS, mobile phone stations, signaling, lighting
 - High capacity applications in areas with unstable grid and unreliable power supply
- + Excellent cycling also in state of partial discharge
- + > 1.500 cycles at 20°C / 60% DoD
> 5.000 cycles at 20°C / 20% DoD
- + OPzV technology, with tubular positive plates and electrolyte immobilized in gel
- + Dimensions according to DIN 40742 OPzV cells
- + Suitable for use at elevated temperature
- + Optimized for deep discharge recovery DIN 43539T5
- + 18 years design life under float condition
- + Minimal gassing and maintenance free (no topping-up)
- + Completely Recyclable

Applicable Standards

- IEC 61427 - photovoltaic energy systems
- DIN 40742 - specification OPzV cells
- DIN 43539T5 - deep discharge
- IEC 60896 Part 21 - VRLA methods of testing
- IEC 60896 Part 22 - VRLA requirements
- Eurobat "Long Life" - 12 years and longer

FIAMM Manufacturing

- ISO 9001 Quality Management System
- ISO 14001 Environmental Management System

Technical Features

- Tubular positive plates, pressure cast from high tin / low calcium alloy
- Electrolyte immobilized in gel structure
- Highly porous gauntlets retain the active material
- Pasted negative plates designed to have service lives consistent with the positive plates
- Separators with extremely high porosity and low internal resistance
- Standard ABS plastics
(Optional flame retardant plastics ABS IEC 707 FV0 and UL 94 V0 with LOI greater than 28%)
- Container and lid designed for unsurpassed mechanical strength made of thick walled plastics
- Threaded female M10 terminal posts guarantee highest conductivity, maximum torque retention and easy installation
- High integrity post seal design to prevent electrolyte leakage and terminal corrosion
- Flame arrestors prevent sparks or flames from entering the cell
- Cells equipped with one-way safety valves to allow excess gas to escape when overcharging
- < 2% self-discharge per month at 20°C allows 6 months shelf life
- Installation in vertical or horizontal position
- Flexible, fully insulated cable connectors with insulated screw with probe hole on the top for voltage measurement



ENDURLITE

SMG Solar OPzV



FIAMM SMG Solar OPzV range

CELL TYPE	CAPACITY (Ah) at 20°C	SHORT CIRCUIT CURRENT (A)	INTERNAL RESISTANCE (mohm)	WEIGHT (kg)	DIMENSIONS (mm)			TERMINALS
	120 hrs to 1.85 VPC	IEC 60896 21-22	IEC 60896 21-22		Length	Width	Height*	+/-
SMG/S 265	265	2800	0.714	20.4	103	206	406	1 / 1
SMG/S 330	330	3650	0.571	23.5	124	206	406	1 / 1
SMG/S 400	400	4250	0.476	27.5	145	206	406	1 / 1
SMG/S 460	460	3560	0.572	29.6	124	206	523	1 / 1
SMG/S 570	570	4200	0.476	35.7	145	206	523	1 / 1
SMG/S 660	660	4950	0.409	40	166	206	523	1 / 1
SMG/S 860	860	6200	0.322	51	145	206	698	1 / 1
SMG/S 1150	1150	7100	0.285	68	210	191	698	2 / 2
SMG/S 1440	1440	8800	0.228	84	210	233	698	2 / 2
SMG/S 1720	1720	10500	0.190	98	210	275	698	2 / 2
SMG/S 2000	2000	11700	0.170	118	210	275	848	2 / 2
SMG/S 2600	2600	15700	0.128	164	212	397	824	3 / 3
SMG/S 3300	3300	20000	0.102	201	212	487	824	4 / 4
SMG/S 3900	3900	23500	0.086	235	212	576	824	4 / 4

* Total height including standard connection screw

Electrical Characteristics

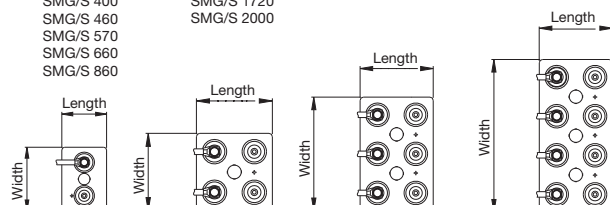
- NOMINAL VOLTAGE: 2 V
- FLOAT VOLTAGE AT 20°C: 2.23 V/cell
- BOOST RECHARGE: maximum voltage of 2.4 V/cell with the maximum current of $0.25 \times C_{10}$ (A)

SMG/S 265
SMG/S 330
SMG/S 400
SMG/S 460
SMG/S 570
SMG/S 660
SMG/S 860

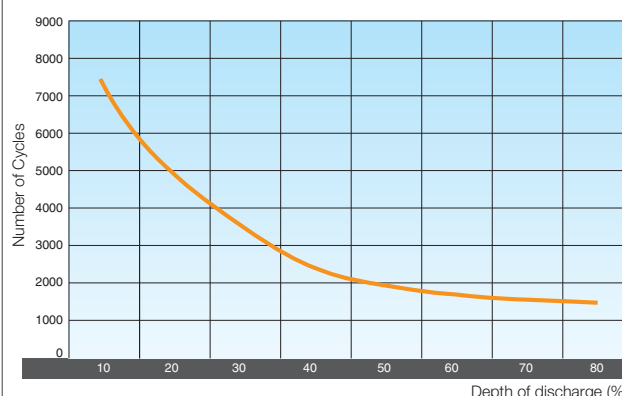
SMG/S 1150
SMG/S 1440
SMG/S 1720
SMG/S 2000

SMG/S 2600

SMG/S 3300
SMG/S 3900



Lifetime in cyclic use at 20°C



FIAMM reserves the right to change or revise without notice any information or detail given in this publication
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