

Product information

Vented tubular monoblocs type GLS PLUS are suitable for all standby applications which require a safe and reliable battery with long service life.

The GLS PLUS product is used in standby power systems for telecommunications, power generation and distribution, UPS systems, emergency lighting etc...

The GLS PLUS range is distinguished by its high tolerance to cycling and long float charge life.

GLS Plus

Battery design

● Positive tubular plate

- The positive plate (spines) is made of a low antimony lead alloy. The antimony content is only 1.6%.

● Negative Flat Plate

- The negative plate is a pasted flat plate type.

● Separator

- The separator between the positive and negative plates is made of microporous material.

● Container

- The cell containers are made of transparent SAN with clearly marked maximum and minimum electrolyte levels.

● Electrolyte

- The electrolyte is a diluted sulphuric acid with specific gravity of 1.240 ± 0.010 at $20\text{ }^{\circ}\text{C}$ in fully charged condition.

● Vent Plug

- The vent plug is a flame arresting ceramic type with possibility to top up the cell and take specific gravity reading, without removing it from the cell.

● Terminals

- The terminals are of lead with a brass insert and the bolt is made of acid-proof stainless steel, M8.

● Connectors

- The inter bloc connectors are solid copper bolt-on type (20x3mm) with covers that allow cell voltage measurements without being removed.

● Charging

- The float charge voltage is 2.23 Vpc.
- For further charging information please refer to our installation, operating and maintenance instructions.

Features

- low water consumption with topping up interval of approximately 3 years.
- Integrated handles for easier handling.
- Float charge at 2.23 Vpc is normally sufficient to fully recharge the battery after discharge.
- Long service life, when operated on float applications at 2.23 Vpc and $20\text{ }^{\circ}\text{C}$.
- Excellent cycle life for regular charge/discharge applications.
- The glass clear SAN containers allows excellent visibility of the internal components and level of electrolyte :
With clearly marked maximum and minimum electrolyte levels it is easy to see if the cell needs topping up.

● Options

- Rope handles
- Individual cell voltage measurements
- Types with blind cells available

● Recommended operation conditions

- $0\text{ }^{\circ}\text{C}$ to $+45\text{ }^{\circ}\text{C}$ (preferred $20\text{ }^{\circ}\text{C}$)

● Standard

- DIN 40737-3, OPzS monoblocs



Technical characteristics per bloc

Type	Designation to DIN 40737-3	Capacity (Ah)			Internal** resistance (incl. connectors, charged) (mOhm/bloc)	Short** circuit current (incl. connectors, charged) (A)	Dimensions (mm)			Weight (kg)		Acid volume (l)	Type
		C ₁₀	C ₅	C ₃			Length	Width	Height*	Dry	Filled		
12V blocs													12V blocs
GLS PLUS 12/60	12 V 1 OPzS 50	62	45	28	15.5	765	272	205	380	22.0	34.8	10.3	GLS PLUS 12/60
GLS PLUS 12/100	12 V 2 OPzS 100	108	90	56	7.7	1544	272	205	380	32.3	44.4	9.8	GLS PLUS 12/100
GLS PLUS 12/150	12 V 3 OPzS 150	162	135	84	5.3	2237	380	205	380	45.7	63.6	14.4	GLS PLUS 12/150
6 V blocs													6 V blocs
GLS PLUS 6/210	6 V 4 OPzS 200	216	180	112	2.1	2853	272	205	380	30.3	43.3	10.5	GLS PLUS 6/210
GLS PLUS 6/270	6 V 5 OPzS 250	270	225	141	1.8	3281	380	205	380	38.6	57.0	15.0	GLS PLUS 6/270
GLS PLUS 6/310	6 V 6 OPzS 300	324	270	169	1.6	3649	380	205	380	43.8	62.2	14.8	GLS PLUS 6/310

Weights and dimensions are subject to normal production tolerances

The given electric values apply to full charge state at ambient temperature +20°C

*Incl. connectors

** ± 10%

GLS PLUS 12/60
GLS PLUS 12/100
GLS PLUS 12/150

GLS PLUS 6/210
GLS PLUS 6/270
GLS PLUS 6/310

