

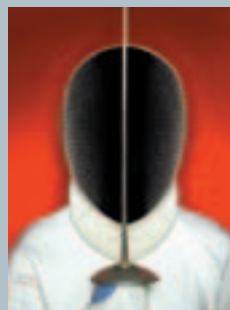
SIPLUS upmiter –
for reliably functioning automation systems
supplied from a combustion engine's batteries



The advantages at a glance

- Safe operation at variable input voltages from 8 to 59 V DC
- Stable output voltage even when voltage dips occur
- Output voltage range designed for connecting SIPLUS LOGO!, S7-200 and S7-300 to a combustion engine's batteries

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EXTREME



SIEMENS

SIPLUS upmiter – reliable whatever the conditions

Requirement

Automation systems such as SIPLUS extreme (based on LOGO!, SIMATIC S7-200, S7-300 etc.) supplied with power from a combustion engine's batteries are being used more and more frequently for monitoring safety equipment or simple control applications.

Two problem situations occur in these application cases:

- In the case of combustion engines with generators and batteries – and deficient electrical contacts – the generator output voltage exceeds the permissible upper limit for the voltage supply of the automation system.
- When starting combustion engines, the battery voltages can fall under the permissible level for the voltage supply of the automation system.

(Supply voltage of SIPLUS units:

nominal value $24 V_{dc}$

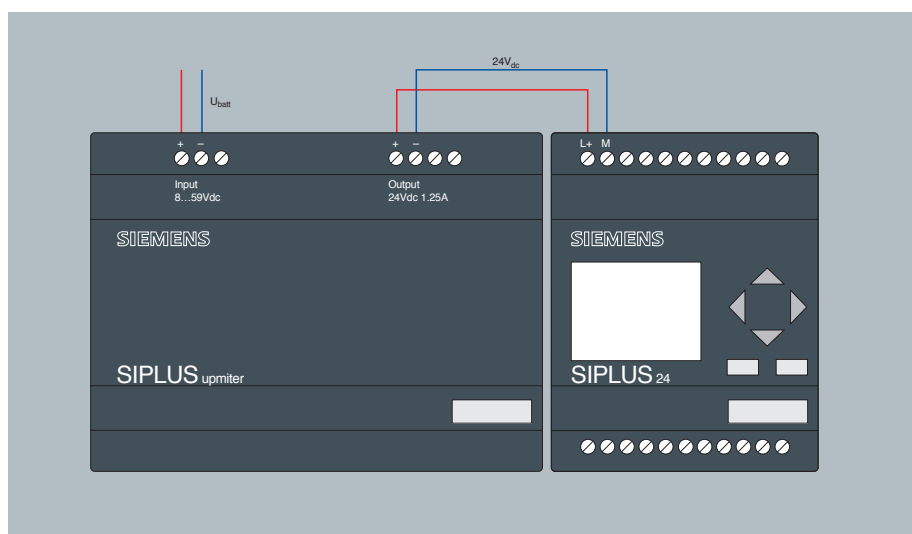
reliable range $20.4 \dots 28.8 V_{dc}$)

Description

In order to ensure dependable operation of SIPLUS devices supplied by the battery in conjunction with combustion engines, it is necessary to put in a SIPLUS upmiter power supply unit between the battery and the power supply clamps of the SIPLUS devices.

The SIPLUS upmiter encompasses two functions:

- The electronic voltage regulator ensures that a maximum of $26 V_{dc}$ is provided.
- The step-up transformer permits the automation system to continue operation during startup, even if voltage drops from the battery occur.



Tech. specifications	SIPLUS upmiter 1.25 A	SIPLUS upmiter 2.5 A	SIPLUS upmiter 5 A
Order No.	6AG1053-1AA00-2AA0 EAN 4025515136712	6AG1203-1AA00-2AA0	in the pipeline
Input voltage U_{batt}	8 ... 59 V_{dc}		
Reverse voltage protection	No		
Output voltage	20.4 ... 28.8 V_{dc}		
Power loss typ.	6 W	14 W	–
Output current	1.25 A	2.5 A	5 A
Degree of protection	IP20		
Ambient temperature	-25 °C ... +70 °C at horizontal mounting -25 °C ... +50 °C at vertical mounting		
Relative air humidity	5 ... 95% short-time dew allowed		
Medial stress	CS ₂ : max. 30 mg/m ³ H ₂ S: max. 15 mg/m ³ H ₂ SO ₄ : vapours in trace		
Storage temperature	-40 °C ... +70 °C		
Vibration	5 Hz ≤ f ≤ 9 Hz constant amplitude 3.5 mm 9 Hz ≤ f ≤ 150 Hz constant acceleration 1 g according IEC 6002 part 2–6		
Shock	halfe sinus / 15 g peak value / duration according to IEC 6002 part 2–27		
Certification	CE	CE	–
Dimensions (w x h x d)	126 x 90 x 55 mm (LOGO!-Style)	160 x 80 x 62 mm (S7-200-Style)	– (S7-300-Style)
Weight	0.230 kg	0.450 kg	–

The information provided in this brochure contains merely general descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract. Availability and technical specifications are subject to change without notice.