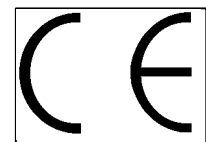
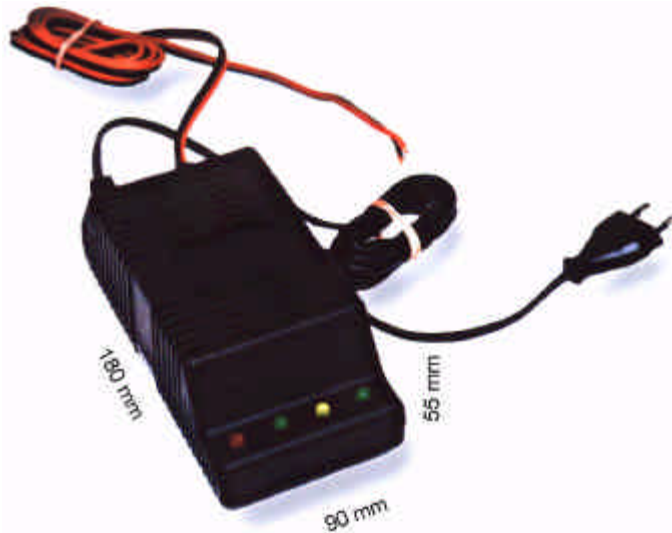


6V 5A 12V 2A 12V 4A 12V 5A 24V 2,5A 36V 1,5A 48V 1A	Primary switched Housing
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Battery Charger

Chapt. 2.4.1. Series G1-300



Technical Description

The chargers of the series G1-300 are designed in primary switch mode technology. A constant DC with only a small portion of AC influence is a guarantee for long life of sealed lead acid batteries.

Mechanical Construction

All components are assembled on a circuit board, that is located in a plastic housing.. The mains supply cable has a section of $2 \times 0,75 \text{ mm}^2$ and a Euro type plug. A green LED shows if a charge current is produced.

The secondary cable has a length of 1,5 m with free ends. Due to request, the ends can be supplied with connectors.

Special features

- ? Current limitation
- ? Short-cut proof
- ? Reverse polarity protection
- ? Reverse polarity monitoring LED
- ? Overvoltage protection
- ? Charge monitoring LED
- ? light weight
- ? Charge of deep discharge batteries (<1V/cell))

Certifications and CE Marking

The chargers meet the requirements with regard to the electro-magnetic compatibility laid down in the EU law (EWG-Vertrag 89/336/EWG and 73/23/EWG).

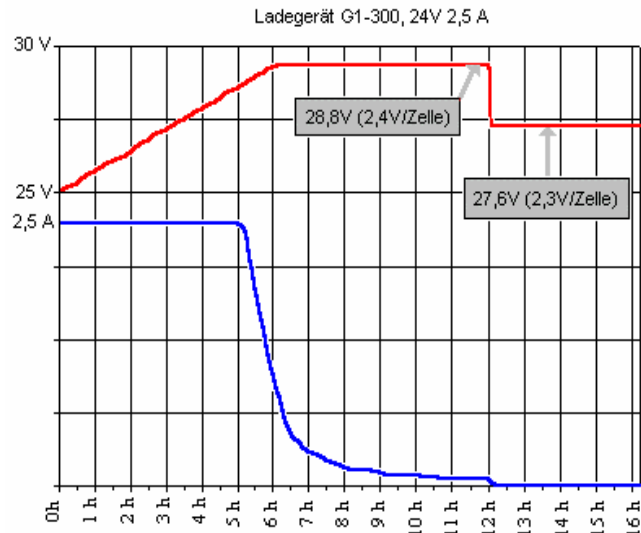
CCA-Certification from SEV (Cenelec Certification Agreement) according EN 60335-2-29 : 91 + A2 : 93, EN 60555-2 : 87, EN 50081-1: 92 (including EN 55022), EN 50082-1 : 92 (including IEC 801-2, IEC 801-2, IEC 801-4)

CCA-Certifications of SEV

(Cenelec Certification Agreement) according EN 60335-2-29 : 91 + A2 : 93, EN 60555-2 : 87, EN 50081-1: 92 (einschl. EN 55022), EN 50082-1 : 92 (incl. IEC 801-2, IEC 801-2, IEC 801-4)

Charge profile

Annexed is an example for a charge profile of the charger typ G1-324-2,5, 24V 2,5A, with IUoU-profile, 2 step charging, 1st phase 28,8 V (2,4V/cell), reaching the 2nd phase (float voltage) of 27,6 V (2,3V/cell) after 12 hours.



Technical characteristics G1-300

Charger type	G1-306-5	G1-312-2	G1-312-4	G1-312-5	G1-324-2,5	G1-336-1,5	G1-348-1
Nominal voltage DC	6 V	12 V	12 V	12 V	24 V	36 V	48 V
Nominal current DC	5 A	2 A	4 A	5 A	2,5 A	1,5 A	1 A
Charge voltage setting 1. phase	7,2 V	14,4 V	14,4 V	14,4 V	28,8 V	43,2 V	57,6 V
Charge voltage setting 2. phase	6,9 V	13,8 V	13,8 V	13,8 V	27,6 V	41,4 V	55,2 V
Current limit appr.	5 A	2 A	4 A	5 A	2,5 A	1,5 A	1 A
Short cut current	< 5 A	< 2 A	< 4 A	< 5 A	< 2,5 A	< 1,5 A	< 1 A
Charge profile	IUoU						
Back current at mains failure appr.	approx. 2,5 mA						
Mains voltage AC, 50/60Hz	230V ± 15%						
Input current at 230V appr.	0,4 A						
Switching frequency appr.	30 kHz.						
Mains interference	EN 55014						
Class of protection	II/VDE 0805						
Switch polarity	self reset semiconductor fuse after Mains-Reset						
Efficiency appr.	0,80	0,80	0,81	0,81	0,83	0,84	0,85
Range of ambient temperature appr.	0°C / +35°C						
*Spikes appr.	0,5 % pp						
Ripple of the output voltage appr.	0,5 % pp						
Variation of the output voltage between 207-265V appr.	0,2 %						
*Voltage regulation at. 80% nom. cur.	2 %						
Cooling	Convection						
Weight approx.	600 g						
Dimensions (LxWxH) mm	180x90x55						

*Measured at the charger terminals