CL7.2VDC-1.2A

- automatic charger for 6 V lead-acid batteries

FEATURES:
- standard charging mode: first charging with constant current (CC), then keeping constant voltage (CV)
- reliable and efficient
- compliance with standards
- fully protected

APPLICATIONS:
- DC power backup systems
- uninterruptable power systems
- emergency lighting systems
- mobile and transportation devices
- automotive

CL7.2VDC-1.2A is a plug shape 9-watt lead-acid batteries charger. It supports various types such as flooded, sealed, gel, and VRLA with a nominal voltage of 6 V. The charger supports normal speed in charging mode and next keeps the batteries in standby. It is based on high quality electronic components that allow continuous, long-lasting work in all environmental conditions.
Supports battery capacities 4-12 Ah for standard charging mode (0.1-0.3 C20)

TECHNICAL CHARACTERISTICS

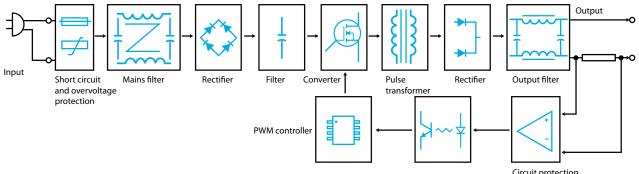| Group	Parameter	Value	Conditions
Input	Rated input voltage	230 VAC	
	Input voltage range	100-240 VAC	
	Mains frequency range	50-60 Hz	
	AC current (max.)	0.3 A	At 240 VAC and full load
	Inrush current (max.)	30 A	At 240 VAC and full load
	Input leakage current (max.)	Max. 0.25 mA	At 264 VAC
Output	Charging method	CC/CV	
	Rated output voltage	7.2 V	With no load
	Minimum CV mode output voltage	6.9 V	With no load
	Maximum CV mode output voltage	7.5 V	With no load
	Rated output current	1.2 A	
	Lowest CC mode current	1.05 A	
	Highest CC mode current	1.35 A	
	Rated output power	9 W	
	DC voltage rise time (max.)	Up to 40 ms	At 100 VAC and full load
	Hold up time (max.)	5 ms	At 100 VAC and full load
	Turn on delay time (max.)	Up to 3 s	At 100 VAC and full load
Environmental	Working temperature	0℃ to +50℃	
	Working humidity	5% to 90% RH	Without condensation
	Storage temperature	-10℃ to +80℃	
	Cooling method	Free air circulation	
Protection	Short circuit	Yes	
	Overcurrent	Yes	Rectangular characteristic
	Automatic recovery on fault remove	Yes	
Safety and EMC	Withstand isolation voltage	3 kVAC (input to output)	5 mA, 1 min
	Isolation class	2	Grounding is not required
	Safety compliance	EN60950, EN60335	
	EMC compliance	EN55022, class B	
	Marking	RoHS, CE	
Mechanical	Dimension	70 × 27 × 38 mm	D × S × W
	Enclosure	Black ABS plastic	Plug type
	Weight	85 g	
	Input connector	2 pole EU plug	
	Output connector	Alligator type clip	Black – negative Red – positive
	Output cable	1.2 m	0.35 mm^2
	Country of manufacturing	China	

Notes:
Unless otherwise stated, all parameters are specified at 230 VAC input voltage, 50 Hz, ambient temperature 25℃ and relative humidity 70% for rated load output. The values of parameters related to the output voltage regulation is measured from low to high line or for load changes from 0 to 100%, respectively. The power supply is considered as an independent unit, but the final equipment still need to reconfirm that the whole system complies with the EMC directives. If the PSU is installed in the final device as a subassembly, the tests should be repeated to verify that the system has been met compliance. Detailed technical data are available on request.
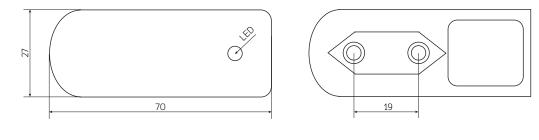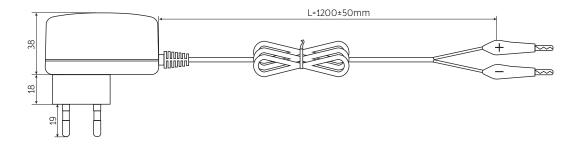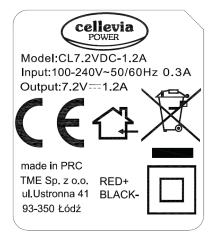
BLOCK DIAGRAM

| Input | Short circuit and overvoltage protection | Mains filter | Rectifier | Filter | Converter | Pulse transformer | Rectifier | Output filter | Output |

PWM controller → Circuit protection and current regulation

MECHANICAL SPECIFICATION

27
70
LED
19

L=1200±50mm
38
18
19
+
−

PRODUCT LABEL

cellevia POWER

Model:CL7.2VDC-1.2A
Input:100-240V~50/60Hz 0.3A
Output:7.2V⎓1.2A

CE

made in PRC
TME Sp. z o.o.
ul.Ustronna 41
93-350 Łódź

RED+
BLACK-

Legend to the label icons:

▣ – II safety class: no grounding is required, no dangerous voltage even in an emergency situation will appear on output

☒ – the product must not be disposed of in normal waste containers

LED STATUS INDICATORS

State	Conditions	LED red	LED green
No battery	No battery connected to charger	○	●
Charging	Output current from od 500 do 1200 mA (±100 mA)	●	○
Battery charged	Output current below 500 mA (±100 mA)	○	●

MARKING SYSTEM

CL7.2VDC-1.2A

Charging current **1.2 A**
Rated voltage **7.2 V**
Family **CL**