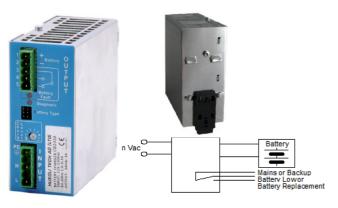


CE

HT-C245C Battery Charger



- Input: Single-phase 115 ÷ 230 Vac
- Output: Battery charging 24 Vdc; 5 A
- Suited for the following battery types: Open Lead Acid, Sealed Lead Acid, lead Gel and Ni-Cd (option)
- Automatic diagnostic of battery status. Charging curve IUoUo, constant voltage and current
- Switching technology, output voltage 28.8 Vdc Three charging levels: Boost, Trickle, Recovery.
- Protected against short circuit, inverted polarity, over Load.
- Signal output (contact free) for fault battery state
- Protection degree IP20 DIN rail

Technical features

The HT-C series is a "Switching technology" and "Battery Care philosophy", since years parts of the core know-how at Huegli Tech, led to the development of this advanced multi-stage battery charging method, completely automatic and suited to meet the most advanced requirements of battery manufacturers. The Battery Care concept is base on algorithms that implement rapid and automatic charging, battery charge optimization during time, flat batteries recovery and real time diagnostic during installation and operation. The Real Time Auto-diagnostic system, monitoring battery faults such as, elements in short circuit, accidental reverse polarity connection. disconnection of the battery, they can easily be detected and removed by help of Blink Code of Diagnosis Led; during the installation and after sell. Each device is suited for all battery types, by means of jumpers it is possible setting predefined curves for Open Lead Acid, Sealed Lead Acid, Gel, Ni-Cd (option). They are programmed for two charging levels, boost and trickle. A rugged casing with bracket for DIN rail mounting provide IP20 protection degree.



General Data

Insulation voltage (In /Out)	3000 Vac
Insulation voltage (In / PE)	1605 Vac
Insulation voltage (Out / PE)	500 Vac
Protection Class (EN/IEC 60529)	IP20
Protection class	I, with PE
	connected
Reliability: MTBF IEC 61709	> 300.000 h
Pollution Degree Environment	2
Connection Terminal Blocks screw Type	2,5mm(24-
	14AWG)
Protection class (PE Connected)	I, with PE
Dimensions (w-h-d)	45x100x100 mm
Weight	0.30 Kg approx

Climatic Data

Ambient temperature (operation)	-25 ÷ +70°C
De Rating Ta > 50°C	- 2.5%(In) / °C
Ambient temperature Storage	-40 ÷ +85°C
Humidity at 25 °C no condensation	95% to 25°C
Cooling	Auto Convention

Norms and Certifications

Conforming to:

- IEC/EN 60335-2-29
- EN60950/UL1950, Electrical safety
- 89/336/EEC,EMC Directive
- 2006/95/EC (Low Voltage)
- DIN41773 (Charging cycle)
- Emission: IEC 61000-6-4
 Immunity: IEC 61000-6-2.CE

Signal Output (free switch contact)

Main or Backup Power	Yes
Low Battery	Yes
Fault Battery	Yes

Type of Signal Output Contact

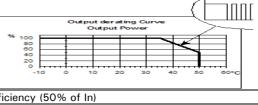
Max.	current	can	be	switched	
(EN609	947.4.1):				Resistive load
Max. DC1: 30 Vdc 1 A; AC1: 60 Vac 1A		Min. load			
Min.1n	nA at 5 Vdc				

Input Data

Nominal Input Voltage (2 x Vac)	115 – 230
Input Voltage range (Vac)	90 - 305
Inrush Current (Vn and In Load) 12t	≤ 16 A ≤ 5 msec.
Frequency	47 – 63 Hz ±6%
Input Current (115 – 230 Vac)	2.4 – 1.2 A
Internal Fuse	4 A
External Fuse (recommended)	10 A (MCB curve B)

Battery Output (Battery Care)

Boost charge (25 °C) (Typ. at In)	28.8 Vdc
Max. time Bust Charge (tpy. At In)	15 h
Min. time Bust Charge (tpy. At In)	70 min.
Trickle charge (25 °C) (Typ. at In)	27.5 Vdc
Jumper Configuration battery type	2.23;2,25;2,27;2,3;
(V cell) Ni-Cd (optional)	1,41–1,5 (20 elem.)
Recovery Charge	2 – 16 Vdc
Charging. Max Ibatt < 40°C (In)	5A±5%
Charging. Max Ibatt > 40°C (In)	3.5 A

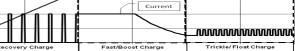


81%
20 ÷ 100 % / In
≤ 5 mA
3 stage
Yes
Yes
Yes
Yes
20 ÷ 100

Charging

An automatic multi-stage charging and real time diagnostic allow fast recharge and recovery of deep discharged batteries, adding value and reliability to the system hosting. Type of charging it is Voltages and current stabilized IUoUo. The state of charging battery and Auto-diagnosis of the systems are identified by a flashing code on a Diagnosis LED and Fault Battery LED:

	State	Diagnosis LED	Battery Fault LED
Charging Type	Trickle	1 Blink/sec	OFF
	Boost	2 Blink/sec	OFF
	Recovery	5 Blink/sec	OFF
	Reverse polarity	J1Blink	ON
Auto	Battery No connect	JI2Blink	ON
diagnosis	Element in Short C.	JM3Blink	ON
	Replace Battery	JMM_5Blink	ON
	СВС	harging Diagram	
		Voltage	
ge / Current			



HUEGLI TECH AG (LTD) Murgenthalstrasse 30 4900 Langenthal Switzerland Phone: +41 62 916 50 30 Fax: +41 62 916 50 35 www.huegli-tech.com

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