LP442410

INTELLIGENT BATTERY CHARGER 24VDC10A

Thank you for having chosen one of our products for your work. We are certain that it will give the utmost satisfaction and be a notable help on the job.

■ GENERAL DESCRIPTION:



AFFILIO. ION.

PI44 battery charger is a range of microprocessor-power supplies witch correctly charge sealed lead-acid batteries at all time maximizing performance and life span. Furthermore the device supplies your system with 24VDC continuously and safety. Charge the battery in multi-stage principle, Feat and Trickle and automatically the device, check the battery efficiency in a lifetime to prevent say risk of damage to the battery and allow leaving the charger permanently connected. Before begin the operations of installation consult the manual.

MAINS CHARACTERISTIC

- Nominal Input Voltage: 115 277Vac
- OUTPUT 1: for connection to Battery
- OUTPUT 2: for connection to Load
- Fast and trickle battery charge In according to DIN 41773
- Signaling: replace battery, low battery, mains or buffering
- Overload and short circuit protections Safety isolation in according with EN 60950
- Output 24 Vdc 10A 50° C also without mains
- Degree of protection IP20 Rail DIN mounting

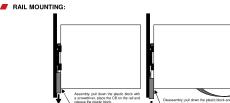
Instruction Manual

subject to technical changes and misprints

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Battery Charger



V release the plaint book.
The CB is now assembled on the real.

Other modules must have a minimum werkeal distance of 10 cm to this power supply in order to guarantee sufficient auto cor USE AND CONNECTIONS

Caution: Switch off the system before connecting the module. Never work on the machine when it is live.

Charging Level Current: With trimmer from 20% to 100% of in. Select the max. battery charge current estimated from 10 to 25% of the promisel Rather canacity.

the nominal Battery capacity.

Battery module (Output 1) 3-4 Pin

Out Load (Output 2) 1-2 Pin: Output voltage 24 Vdc is made via the +,
Mains or Backup: Mains with led off and closed contact (5-6),

Mains or backup: Mains win led of and closed contact (6-6),

Backup with led on and closed contact (6-7),

Low Battery or Batter prapacement: Normal condition with battery OK, led Off and closed contact (8-9), Low Battery with battery

NOK, led ON and closed contact (8-10), Battery replacement alarm with Power ON, led ON and closed contact (8-10); (see diagnostic Led).

Life Test Battery: In trickle charge condition check every 4 hours, internal impedance (5 blinking: Diagnosis Led)

DIAGNOSIS LED

Very fast blinking—ercovery charging (when the battery is too low, Under 20 Vdc)
Fast blinking—fast charge.
Stow blinking—fricke charge (floating charge)
1 blinking—Bartery to connected.
2 blinking—Bartery not connected.
3 blinking—Short circuit battery element.
4 blinking—Over Lod.
5 blinking—Bad battery. (Internal impedance Bad or Bad battery wire connection) ery charging (when the battery is too low, Under 20 Vdc)

BATTERY TYPE CONFIGURATIONS



Caution: Switch off the system before setting the jumper. Only jumper in position 5 Refresh ON/OFF state whit power. Notice: the model, without mains voltage, closing the contact pos. 5 for 1 second and will start-up the unit.

1234 5

1234 5

1234 5

1234 5

1234 8

Open Lead (Charge): Trickle =2.23 Fast=2.40/cell

Sealed Lead (Charge): Trickle =2.25 Fast=2.40/cell

Sealed Lead (Charge): Trickle =2.27 Fast=2.40/cell

■ Gel Battery (Charge): Trickle =2.30 Fast=2.40/cell

Life Test Battery

No jumper no Fast Charge (pos. 5)

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CABLE CONNECTION

Input: The input connection is made by the screw connections L, N, PE ...



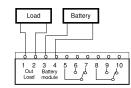




Note: BRIDGE ONLY for 115 Vac supply:



Output/battery:



PROTECTION

On the primary side: the device is equipped whit a internally fuse T 6 A250Vac. If the internal fuse is activated, it is most probable that there is a fault in the device. If happen, the device must be checked in the factory.

On the secondary side Battery and load: The device is electrically protected against short circuits and overload. Inversion polarity: the module is protected against inversion of battery polarity.

Over current and output short circuit: the unit littles the output current at max. 12 A in normal rating.

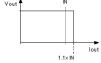
Deep discharge: not possible. The unit disconnects the battery when a minimum voltage level is reached.

Battery Test: Automatic. Every 25 osc. check polarity and battery. Every 4 hours in trickle charge, make the test of the battery efficiency. The fault is signalized with relay commutation and diagnosis led blinking.

■ CHARACTERISTIC CURVES

■ SHORT CIRCUIT AND OVERLOAD

The output of the device is electrically protected against overload and short circuit. At nominal voltage the device can supply 1.1 the nominal Current without switching off. In the case of higher overload, the operating point traces the curve illustrated in figure. As the overload increases, the output voltage is reduced until zero.



■ THERMAL BEHAVIOR

The device supplies the nominal output current at ambient temperature of up 50°C. For ambient temperature of over 50°C, the output current must be reduced by 1% per °C increase in temperature Max 70°C.



STANDARDS AND CERTIFICATION

ELECTRICAL SAFETY

The device must be installed in according unit, via which can be switched to idle. with EN60950. The device must have a suitable isolating facility outside the power supply

GENERAL STANDARD

Immunity in according with EN50082-2, level 4, class B Radio interference suppression in according with EN 55011 class A (industrial areas)

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Battery Charger

FEATURES

■ INPUT DATA	
Nominal Input Voltage (2 x Vac)	115 / 277 Vac
Input voltage range	90 + 135 / 180 + 305 Vac
Frequency	47 ÷ 63 Hz
Input Current (Nominal input Voltage)	3,3 - 2,2 A
Internal Fuse	F 6 A
External Fuse (recommended)	Fast 16 A

OUTPUT DATA	
Output Voltage Battery Bulk Charge / Nominal Current	Max 28.8 Vdc / 10 A
Output Voltage Battery Trickle Charge / Nominal Current	Max 27.5 Vdc / 10 A
Adjustment range of charge (In adj)	20 ÷ 100% ln
Output voltage in Backup mode	22 – 27 Vdc
Type of charging characteristic	U/I
Load current (Main)	max. 20A
Load current (Back up)	max. 15A
Type battery up to	100 Ah
Start up with capacity load	≤ 30.000 µF
Switching on after applying mains voltage	2,5 sec. max
Current max.	1.1 x 10A ± 5%
Residual Ripple	≤ 60 mV ₁₀₀
Minimum Load	; No
Efficiency	≥83 %
Short-circuit protection	Yes
Over Load protection	Yes
Over Voltage Output protection	Yes
Reverse battery protection	Yes

CLIMATIC DATA

Ambient Temperature (operation)	-25 ÷ +70 °C
Ambient Temperature (Storage)	-40 ÷ +85 °C
Humidity; no moisture condensation	95 % a 25°C

■ GENERAL DATA

Isolation Voltage (Input/ output)	3000 Vac
Input ground insulation	1605 Vac
Electrcal safety	EN 60950
Degree of protection	IP 20
Protection class	I with PE connected
Dimension (w-h-d)	100x115x135
Weight	0.85 Kg approx
In according to EMC 89/336/EEC and Low voltage 2014/35/UE	CE

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