

300 Watts industrial battery charger 12V, 24V, 48V for lead acid battery and lithium battery

- **3 stages charger** : fast / normal / float
Constant current, constant voltage, maintenance current
- **300 Watts power** high power density
- **12V battery** from 60Ah to 200Ah
- **24V battery** from 30Ah to 100Ah
- **48V battery** from 15Ah to 50Ah
- **Input voltage** 115 / 230 Vac
- **Protection** : short-circuit,
reverse polarity, overvoltage, thermal
- **High efficiency up to 88%**
natural air cooling
- **LED loading indication**
RED: charging, GREEN: end of charge
- **Wall mounting or DIN rail mounting**

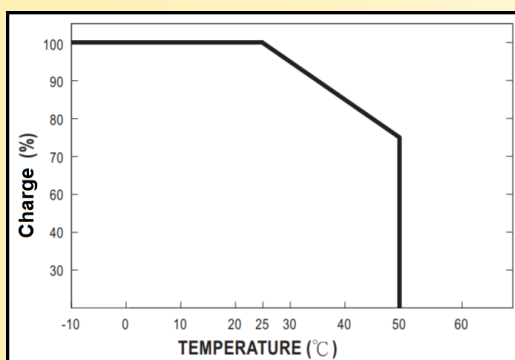


The WRHD is a high reliability industrial charger that can be left connected to the battery without interruption while keeping the battery fully charged, even when the battery is being used at the same time.

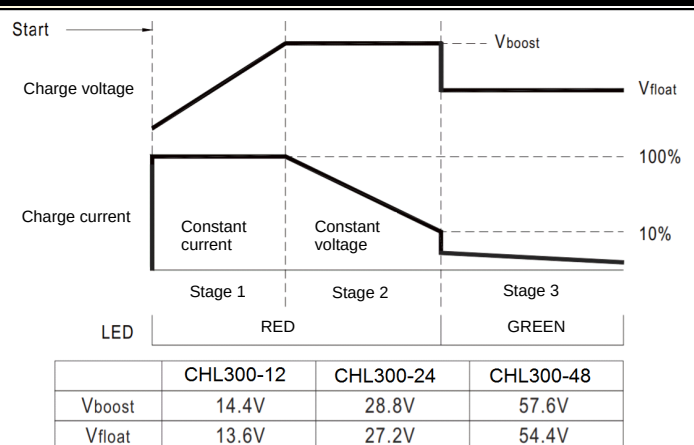
Description, features and technical specifications :

Heat sink aluminium housing, shield on the 6 faces, suitable for mounting on DIN rail or wall mounting.
High vibration resistance, connection on screw terminal blocks, protected against the battery reverse polarity (internal fuse), continuous short circuit protected, thermal protection (output current limitation), natural air cooling,
Input voltage : 115Vac / 230Vac switchable
range : 90-132Vac/180-264Vac and 120-187Vdc/250-370Vdc
battery voltage : 12V, 24V, 48V
voltage output can be adjust with potentiometer,
built-in EMI filter (EN55022 class A),
LED indication: red: charging, green: maintenance current (end of charge)

Power output vs temperature :



Synoptic :



Version and order code:

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- CHL300-12:** charger for 12V battery
- CHL300-24:** charger for 24V battery
- CHL300-48:** charger for 48V battery
- option /RD : with hook for DIN rail mounting

POWER SUPPLY

AC and DC Voltage: 115Vac / 230Vac switchable, wide range (90..132Vac / 180...264Vac) and (120..187Vdc / 250..370Vdc)
 Frequency range : 47Hz...63Hz , inrush current: 60A

OUTPUT

CHL300-12:

boost charge voltage 14.4V, float charge voltage 13.6V
 adjustable range : 13 ~ 14.7V
 recommended battery capacity : 60 ~ 200Ah
 nominal output current : 12.5A (20.8A maxi)

CHL300-24:

boost charge voltage 28.8V, float charge voltage 27.2V
 adjustable range : 26 ~ 28.8V
 recommended battery capacity : 30 ~ 100Ah
 nominal output current : 6.3A (10.5A maxi)

CHL300-48:

boost charge voltage 57.6V, float charge voltage 54.4V
 adjustable range : 52 ~ 58.6V
 recommended battery capacity : 15 ~ 50Ah
 nominal output current : 3.2A (5.3A maxi)

ENVIRONMENT

Operating temperature : -20 to 50 °C (without derating)
 Storage temperature: -25 to 85 °C
 Humidity 20...90 % (not condensing)
 Protection rating IP20 (case and connector)

Dielectric strength 2500 Vrms continuous
 Isolation resistance > 100 Mohms at 500Vdc
 Safety standards EN 60950-1

Typical efficiency between 85 and 88%.
 Vibration 10-55 Hz, 2G, 10 minutes X,Y,Z.
 Weight 2kg
 Switching frequency 70 kHz typical

MTBF (+25°C) > 120 000 hours @ 25°C

Electromagnetic compatibility 2004/108/CE / Low Voltage Directive 2006/95/EC

Immunity standard for industrial environments EN 61000-6-2		Emission standard for industrial environments EN 61000-6-4
EN 61000-4-2 ESD	EN 61000-4-8 AC MF	EN 55011 group 1 class A
EN 61000-4-3 RF	EN 61000-4-9 pulse MF	
EN 61000-4-4 EFT	EN 61000-4-11 AC dips	
EN 61000-4-5 CWG	EN 61000-4-12 ring wave	
EN 61000-4-6 RF	EN 61000-4-29 DC dips	



WIRING AND OUTLINE DIMENSIONS:

