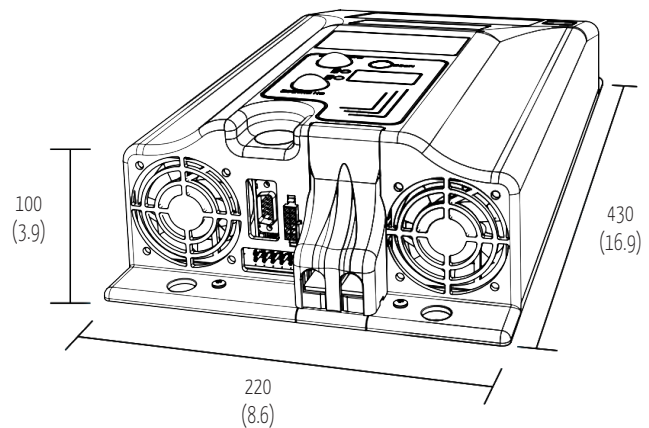


# BATTERY CHARGER NG3

## Highlights

Capable to charge several battery chemistries, including lead-acid (wet, AGM, gel) and lithium batteries, NG3 battery charger exhibits

exceptional efficiency in charging solutions. Applications include aerial work platform, material handling and many others.



mm (Inch.) - Weight: 5,5 Kg (12.1 lbs)

## Features

- ✓ **Robust and Powerful**
- ✓ **Modular approach**  
with field proven power modules
- ✓ **Multivoltage capability**  
for Li-Ion battery applications
- ✓ **All battery type (including Li-Ion)**  
over 30 years experience with charging algorithms development
- ✓ **CAN BUS Modular architecture**  
available Zivan proprietary system for remote charger and battery monitoring
- ✓ **Plug & play charger configuration**  
intuitive, user friendly
- ✓ **Awarded by leading OEMs**  
in material handling, e-mobility and other sectors

# Technical Features

## MAINS SIDE

Ta=25°C (77°F) unless otherwise specified

DESCRIPTION	SYMBOL	TEST CONDITION	VALUE AND/OR RANGE	UNIT
Supply Voltage Single-phase	V <sub>in</sub>	-	230 ± 10% 115 ± 10%	V <sub>eff</sub>
Frequency	f	-	50 ÷ 60	Hz
Absorbed Maximum Current per phase	I <sub>f max</sub>	P = P <sub>max</sub>	22	A <sub>eff</sub> *
Inrush Current	-	V <sub>in</sub> =230V <sub>eff</sub>	1,35	A
Displacement Power Factor	DPF/cos φ	P = P <sub>max</sub>	1	-
Power Factor	PF	P = P <sub>max</sub>	0,68	-
Absorbed Maximum Power	P <sub>ri max</sub>	P = P <sub>max</sub>	3,4	kW

\* Maximum value. For the effective current absorption please refer to the charger's identification label.

## BATTERY SIDE

DESCRIPTION	SYMBOL	TEST CONDITION	VALUE AND/OR RANGE	UNIT
Absorbed current	I <sub>a</sub>	Equipment turned off	< 0,5	mA
Thermal compensation of output voltage	dU <sub>1</sub> /dT	Phase 2	-5	mV/(°C·cell)
Thermal compensation range	T	-	-20°C/+50°C (-4°F/+122°F)	°C (°F)
Output voltage ripple	-	U = U <sub>1</sub>	< 1%	-
Maximum power supplied	P <sub>max</sub>	U = U <sub>1</sub> , I = I <sub>1</sub>	2,88	kW

## GENERAL

DESCRIPTION	SYMBOL	TEST CONDITION	VALUE AND/OR RANGE	UNIT
Operating temperature range	T	-	-20°C/+50°C (-4°F/+122°F)	°C (°F)
Maximum relative humidity	RH	-	90%	-
Efficiency	η	-	> 85%	-
Maximum size	a×b×c	without wiring harness	430 x 220 x 100 (16.9 x 8.6 x 3.9)	mm (Inch.)
Weight	-	without wiring harness	5,5 (12.1)	kg (lbs)
Enclosure class	-	-	IP20	-
Switching frequency	f <sub>c</sub>	-	30 ± 5%	kHz

VOLTAGE	MAX. CURRENT
12 V	100 A
24 V	100 A
48 V	60 A
72 V	35 A
80 V	30 A
96 V	25 A