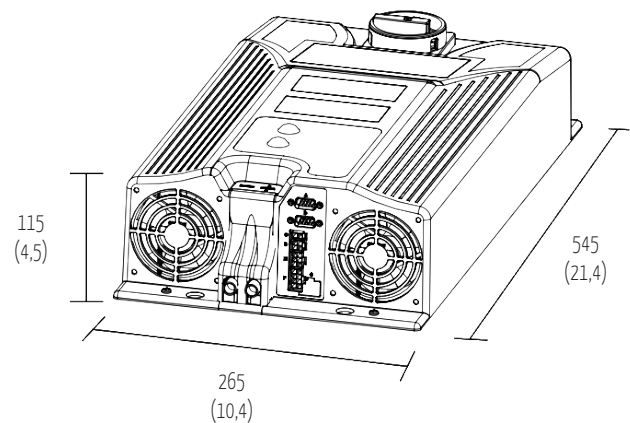


# BATTERY CHARGER NG5/7/9

## Highlights

Capable to charge several battery chemistries, including lead-acid (wet, AGM, gel) and lithium batteries, NG5/7/9 battery chargers exhibits exceptional efficiency in charging

solutions, ensuring a strong battery loading capacity. Applications include aerial work platform, material handling and many others.



mm (Inch.) - Weight: 9 Kg (19,8 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 Three-phase	Vin	-	400+/-15% 480+/-15%	Veff
Frequency	f	-	50 ÷ 60	Hz
Absorbed Maximum Current per phase	I <sub>f max</sub>	P = P <sub>max</sub>	NG5: 8 NG7: 12 NG9: 16	A <sub>eff</sub> *
Inrush Current	-	Vin=400Veff	2,5	A
Displacement Power Factor	DPF/cosφ	P = P <sub>max</sub>	1	-
Power Factor	PF	P = P <sub>max</sub>	0,95	-
Absorbed Maximum Power	P <sub>ri max</sub>	P = P <sub>max</sub>	NG5: 5,3 NG7: 6,8 NG9: 10,5	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	dU1/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 = U1	< 1%	-
Maximum power supplied	P <sub>max</sub>	U = U1, I = I1	NG5: 4,8 NG7: 6,24 NG9: 9,6	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	-	Up to 92%	-
Maximum size	a×b×c	without wiring harness	545 x 265 x 115 (21,4 x 10,4 x 4,5)	mm (Inch.)
Weight	-	without wiring harness	9 (19,8)	kg (lbs)
Enclosure class	-	-	IP20	-
Switching frequency	f <sub>c</sub>	-	20 ± 5%	kHz
VOLTAGE	NG5 MAX. CURRENT	NG7 MAX. CURRENT	NG9 MAX. CURRENT	
24 V	120 A	120 A	200 A	
48 V	95 A	120 A	160 A	
80 V	60 A	75 A	120 A	
96V	50 A	65 A	80 A	
96V/48V	50 A	65 A	80 A	

