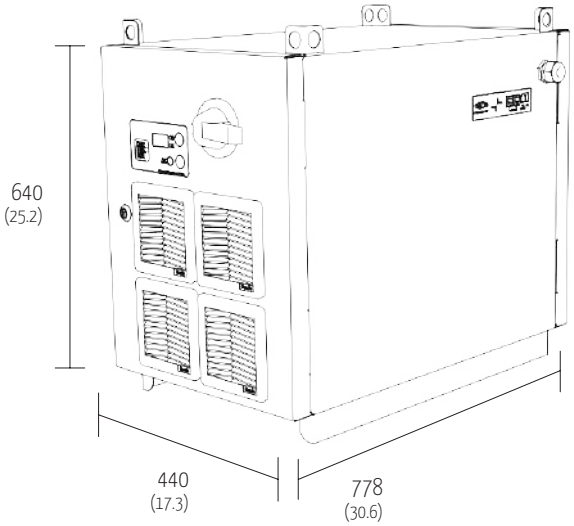
BATTERY CHARGER MG27

ZIVAN®
HIGH FREQUENCY BATTERY CHARGERS

Highlights

Robust and powerful product for fast and opportunity charging, MG27 is a flexible and scalable solution with high protection grade. Compliant to global standards and regulations, it is amongst the most powerful fast chargers for industrial applications, with a power output of 27 kW.





mm (Inch.) - Weight: 82 Kg (180 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
- **Multifunction charger**
  ustandard, opportunity, fast, ultra fast charging capability
- **Plug & play charger configuration**
  intuitive, user friendly
- **High protection level**

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	If_{max}	$P = P_{max}$	48	Aeff *
Inrush Current	-	Vin=230Veff	< 7.5	A
Displacement Power Factor	DPF/cosφ	$P = P_{max}$	1	-
Power Factor	PF	$P = P_{max}$	0,95	-
Absorbed Maximum Power	Pri_{max}	$P = P_{max}$	31,5	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_a	Equipment turned off	< 1,5	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_{max}	U = U1, I = I1	28,8	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	778 x 440 x 640 (30.6 x 17.3 x 25.2)	mm (Inch.)
Weight	-	without wiring harness	82 (180)	kg (lbs)
Switching frequency	f_c	-	20 ± 5%	kHz

VOLTAGE	MAX. CURRENT
36 V	450 A
48 V	480 A
80 V	360 A
96 V	240 A
96 V/48V MULTIVOLTAGE OUTPUT	240 A