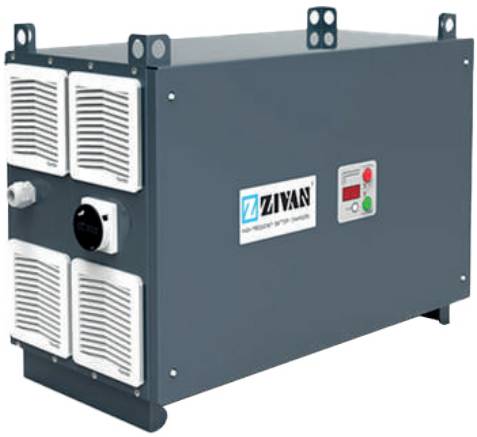
BATTERY CHARGER BG18

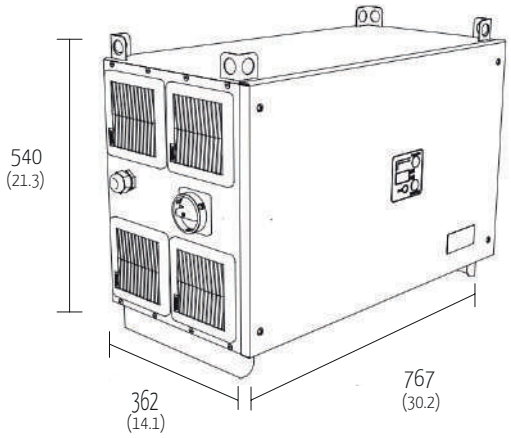
ZIVAN®
HIGH FREQUENCY BATTERY CHARGERS

Highlights

Robust and powerful battery chargers for fast and opportunity charging, BG18 is a flexible solution with reliable field-proven power modules.

Applications in material handling, GSE, non-road mobile machinery, AGV/AMR and other sectors.





mm (Inch.) - Weight: 47 kg (103 lbs)

Features

- **Robust and Powerful** for fast charging
- **Modular platform**
- **Multivoltage capability** for Li-Ion batteries
- **All battery type (including Li-Ion)** over 30 years experience with charging algorithms development
- **High protection level** for Harsh environment
- **Multifunction charger** standard, opportunity, fast, ultra fast charging capability
- **Intuitive plug & play** charger configuration
- **CAN BUS Modular architecture** available Zivan proprietary system for remote charger and battery monitoring

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}	$P = P_{max}$	32	Aeff *
Inrush Current	-	Vin=400Veff	< 5	A
Displacement Power Factor	DPF/cos φ	$P = P_{max}$	1	-
Power Factor	PF	$P = P_{max}$	0,95	-
Absorbed Maximum Power	Pri_{max}	$P = P_{max}$	21	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	mA
Thermal compensation of output voltage	dU1/dT	Phase 2	-5	mV/(°C·cell)
Operating range of Temperature Sensor	ΔT	-	-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	19,2	kW

GENERAL

DESCRIPTION	SYMBOL	TEST CONDITION	VALUE AND/OR RANGE	UNIT
Operating temperature range	T	-	-20°C/+45°C (-4°F/+113°F)	°C (°F)
Maximum relative humidity	RH	-	90%	-
Efficiency	η	-	Up to 92%	-
Maximum size	a×b×c	without wiring harness	767 x 362x 540 (30.2 x 14.1 x 21.3)	mm (Inch.)
Weight	-	without wiring harness	47 (103)	kg (lbs)
Switching frequency	f_c	-	20 ± 5%	kHz

VOLTAGE	MAX. CURRENT
24 V	400 A
48 V	320 A
80 V	240 A
96 V	160 A
96 V/48 V MULTI VOLTAGE OUTPUT	160 A