

BATTERY CHARGER FC18

Highlights

Upgraded high protection grade for harsh environment and optimized internal airflow, FC18 is a rugged and robust fast charger for industrial applications.

With an added cover to protect cables and enhanced product servicing, is a scalable solution compliant to global standards regulations.



mm (Inch.) - Weight: 65 kg (143.3 lbs)

Features

- ✓ **Rugged and Powerful**
- ✓ **Optimized internal airflow**
- ✓ **Multivoltage capability** for Li-Ion batteries
- ✓ **High protection level** IP54 certified
- ✓ **CANopen based** SAE J1939 protocols
- ✓ **“Charge on the Go” kit configuration** forklifts pocket and cables storage for effortless movement and space optimization

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	V _{in}	-	400 ± 15% 480 ± 15%	V _{eff}
Frequency	f	-	50 ÷ 60	Hz
Absorbed Maximum Current per phase	I _{f max}	P = P _{max}	32	A _{eff} *
Inrush Current	-	V _{in} =400V _{eff}	< 5	A
Displacement Power Factor	DPF/cos φ	P = P _{max}	1	-
Power Factor	PF	P = P _{max}	0,95	-
Absorbed Maximum Power	P _{ri 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	dU ₁ /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 ₁	< 1%	-
Maximum power supplied	P _{max}	U = U ₁ , I = I ₁	19,2	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	994 x 639 x 443 (39.1 x 25.2 x 17.4)	mm (Inch.)
Weight	-	without wiring harness	65 (143.3)	kg (lbs)
Enclosure class	-	-	IP54 certified	-
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		