SERIE 3-IP

Advanced line - Wa

MAIN APPLICATIONS

SUITABLE BATTERIES

Wet lead acid - PzS

STANDARD AVAILABLE SIZES

Output Voltage	Output Current
from 12V up to 120V	Amps depending on V ratio, max power in kVA and cabinet size

AH RECHARGE TABLE

A	>>>	15A	20A	25A	30A	40A	50A	60A	70A	80A	90A	100A	110A	120A	130A
Ah (C5)	9h	77	103	129	154	206	257	309	360	412	463	515	566	617	669
	12h	111	147	184	221	294	368	441	514	588	661	735	808	882	956
	13-14h	121	162	202	242	323	404	484	565	646	726	807	887	969	1049
A	>>>	140A	150A	160A	170A	180A	190A	200A	210A	220A	230A	240A	250A	260A	280A
Ah (C5)	9h	720	771	823	874	926	977	1029	1080	1132	1183	1235	1286	1338	1441
	12h	1029	1102	1176	1249	1323	1396	1470	1543	1617	1690	1764	1837	1911	2058
	13-14h	1130	1210	1291	1372	1453	1533	1614	1694	1775	1856	1937	2017	2098	2259

PRODUCT INTRO

Serie 3-IP represents the upgrade into “Advanced” conventional Wa ranges. The IP54 line grants highest protection from dust and water sprays.
This special cabinet is ideal for outdoor applications or airport charging stations. This series features programmable board with internal memory, enhanced algorithms and USB (setting/troubleshooting/data-report). Security features involves both mechanical and software solutions.

GENERAL CHARACTERISTICS

Mains	230Vac (1ph) ± 5% 50Hz / 400Vac (1ph) ± 5% 50Hz (any other on demand)
Visual signalling	5 LED advanced visualization with EAV (easy alarm visualization) and data memory system. See more details on below standard features/optionals table.
Main features	• Automatic start, charging process and shutoff • Universal Electronic Board with advanced digital setting (by display or keypad): profile thresholds / termination mode / equilization mode / delay start / cable compensation • Final charging stage (adjustable in respect of battery usage): temporal, capacitive (CF% and AH accumulated), derivative dv/dt • Leakage power transformer • Wa charging profile (DIN 41774)
Operating temperature	0° to +40°C (heavy climate version available)
Efficiency	82/88% depending on power involved
Certifications	CE in conformity with LV and EMC protocols

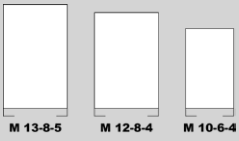
SAFETY FEATURES

Output protection	Reverse polarity protection: fuse
Thermal protection	Leakage power transformer (class F) provided with thermal probes
General protection	Double security timer: gassing point / max charging duration Additional thermal protection based on algorithm managed by electronic board Battery detection with safety powering

OPTIONALS

Additional extra coating on PCB, internal heating system, keypad, Delta/Star switch, WOWa Pulse curve, air system, water fill contacts, external lamp, pilot contact

MECHANICAL CHARACTERISTICS

Protection degree	IP 54 - Dedicated cabinet and external roof integrated
Weight	Depending on model size
Input cable	2,3 m (length) +/- 10% – AC plug on demand
Output cables	2,3 m (length) +/- 10% – DC plug on demand
Dimensions (LxWxH)  M 13-8-5 M 12-8-4 M 10-6-4	*M 13-8-5:* 800 x 500 x 1420 mm
	M 12-8-4: 800 x 400 x 1300 mm
	M 10-6-4: 600 x 400 x 1100 mm