SERIE 5

Advanced line - Wa - WO pulse

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 - Wa Curve

A	>>>	30A	40A	50A	60A	70A	80A	90A	100A	110A	120A
Ah (C5)	9h	154	206	257	309	360	412	463	515	566	617
	12h	221	294	368	441	514	588	661	735	808	882
	13-14h	242	323	404	484	565	646	726	807	887	969
A	>>>	130A	140A	150A	160A	170A	180A	200A	220A	240A	260A
Ah (C5)	9h	669	720	771	823	874	926	1029	1132	1235	1338
	12h	956	1029	1102	1176	1249	1323	1470	1617	1764	1911
	13-14h	1049	1130	1210	1291	1372	1453	1614	1775	1937	2098

AH RECHARGE TABLE - WO PULSE Curve

A	>>>	30A	40A	50A	60A	70A	80A	90A	100A	110A	120A
Ah (C5)	6.5-8h	129-162	173-215	216-269	259-323	302-377	345-431	388-485	431-539	475-593	518-646
	8-11h	162-229	215-306	269-382	323-458	377-535	431-611	485-688	539-764	593-841	646-917
A	>>>	130A	140A	150A	160A	170A	180A	200A	220A	240A	260A
Ah (C5)	6.5-8h	561-700	604-754	647-808	690-862	734-916	777-970	863-1077	949-1185	1035-1293	1123-1399
	8-11h	700-993	754-1069	808-1146	862-1222	916-1299	970-1375	1077-1528	1185-1681	1293-1833	1399-1986

PRODUCT INTRO

Series 5 represents the upgrade into “Advanced” conventional Wa ranges respectively.
The range features programmable 5-LED board with internal memory, enhanced charging algorithms and USB (setting/troubleshooting/data-report via PC). The integrated digital display permits the complete controlling, programming and troubleshooting in real time.
Serie 5 Fast offers our top level conventional charger specifically aimed for quick charge necessities (multiple shift operations) declined into “W0-Pulse” charging characteristics.

GENERAL CHARACTERISTICS

Mains	230Vac (1ph) ± 5% 50Hz / 400Vac (3ph) ± 5% 50Hz
Visual signalling	5 LED advanced visualization and integrated display for programming, diagnostic and consulting data storage
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 (DIN 41774) or W0 pulse charging profile
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

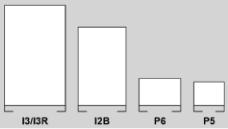
SAFETY FEATURES

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 Delayed start to avoid sparks

OPTIONALS

Protection cage, air system, water fill contacts, external lamp, pilot contact

MECHANICAL CHARACTERISTICS

Protection degree	IP 21
Weight	Depending on model size
Input cable	2,3 m (length) +/- 10% – AC plug on demand Schuko plug included on models up to 16A current draw
Output cables	2,3 m (length) +/- 10% – DC plug on demand
Dimensions (LxWxH)  	*I3:* 700 x 550 x 1150 mm
	I3R: 600 *x* 550 x 1050 mm
	I2B: 550 x 450 x 900 mm
	P6: 480 x 280 x 310 mm
	P5: 350 x 220 x 270 mm