

SERIE 3/5 Advanced line - Wa

CODING (example) SERIE 3

	MODEL	V	A
▼	▼	▼	▼
1PH	3STM	24	60
3PH	2STT		

CODING (example) SERIE 5

	MODEL	V	A
▼	▼	▼	▼
1PH	5STM	24	60
3PH	5STT		

SUITABLE BATTERIES

Pz wet lead acid

EXPECTED RECHARGE TIME

9-13H

MAIN APPLICATIONS



SERIE 3/5



PRODUCT INTRO

Serie 3 and 5 represent the upgrade into "Advanced" and "Top" conventional Wa DIN 41774 ranges respectively, aimed for specific markets demanding structured or dedicated characteristics. Both Series 3/5 feature programmable 5-LED board with internal memory, enhanced charging algorithms and USB (setting/troubleshooting/data-report via PC). The integrated digital display present in Serie 5 exclusively, permits the complete controlling, programming and troubleshooting in real time. Security features involves both mechanical and software solutions.

STANDARD AVAILABLE SIZES (VOLTAGES AND CURRENT)

VOLTAGE from	12V	up to	120V	any other V : on demand (contact our sales / technical dept)
CURRENT from	10A	up to	260A*	*Amps depending on V ratio and max power in kVA
POWER up to	40kVA			

"none standard" Input Vac = available on demand / 60Hz = available on demand

TECHNOLOGY

Flux disperse power transformer - taper charger

Wa charging profile (DIN 41774)

Electronic charge control by microprocessor

Input voltages available: 1phase 230Vac ± 5% - 3phase 400Vac ± 5% / 50Hz

Cabinet protection degree: IP21

Efficiency: 82% /88% depending on power involved

Operating temperature: -0° to +40° C no derating - Storage temperature: -5° to +40°C

Max Humidity: 90% without condensation RH

STANDARD EQUIPMENTS / INTERFACES

SERIE 3

Automatic start, charging process and shutoff, delayed start to avoid sparks

5 LED advanced visualization with EAV
(easy alarm visualization) and data storage memory

Universal Electronic Board fully programmable.
Diagnostic by external keypad

Final charging stage: Temporal, Capacitive (CF% and AH accumulated), Derivative dv/dt, Adjustable in respect of battery usage
USB port: for datalog of last 25 cycles (on demand)

SERIE 5

5 LED advanced visualization + integrated DISPLAY for
programming, diagnostic, consulting storage data and
power-on timer

Universal Electronic Board fully programmable.
Diagnostic by DISPLAY

SAFETY FEATURES

Reverse polarity protection: fuse

Flux dispersion power transformer (class F) provided with thermal probes

Double security timer: gassing point / max charging duration

Additional thermal protection based on algorithm managed by electronic board

OPTIONALS

External optional keypad, Special AC-Mains input Vac, 60Hz models, Cables holder, IP55 cabinet
additional card for: air system - water fill contact - remote Leds/ on off

Ah recharge table

Output current A	Ampere Hours (C5) Ah		
	9h	12h	13h
10 A	50	67	72
15 A	74	100	107
20 A	99	133	143
25 A	124	167	179
30 A	149	200	215
40 A	198	267	286
50 A	248	333	358
60 A	297	400	430
80 A	396	533	573
100 A	495	667	716
120 A	594	800	859
140 A	693	933	1.003
160 A	792	1.067	1.146
180 A	891	1.200	1.289
200 A	990	1.333	1.431
220 A	1089	1.467	1.575

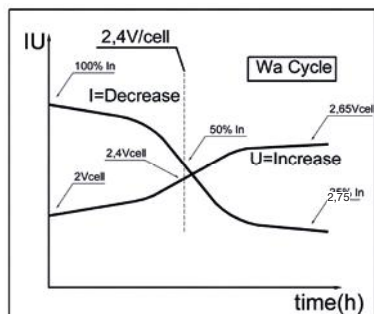
Standard VAC Mains:

*single-phase 220(230)240 Vac
three-phase 380(400)420 Vac
three-phase 220(230)240 Vac
switchable up to
48/160,72/100,80/100,96/80*

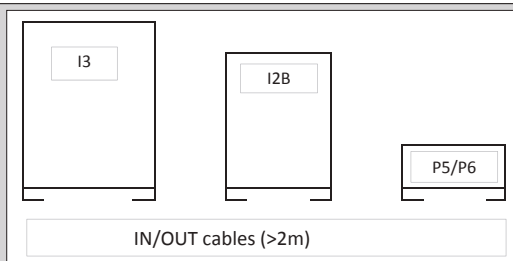
Consumption & additional information:

*see technical chart for absorption,
plugs & recommended mains fuses
by size*

Wa (DIN41774) charging profile



Casing



Dimensions (Case) mm.

P5:	L350 X D220 X H270
P6:	L480 X D280 X H310
I2B:	L550 X D450 X H900
I3R:	L600 X D550 X H1050
I3:	L700 X D550 X H1150

Chart valid for 50Hz Taper chargers

*Ah values referred to an 80% discharged
PzS wet (lead acid) traction battery and
can be considered for any nominal volta-
ge of the charger (Vdc) either 230Vac or
400Vac input.*