

# ➤ Serie 3 / 5 - Advanced line - Wa

CODING (example) **SERIE 3**

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

CODING (example) **SERIE 5**

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

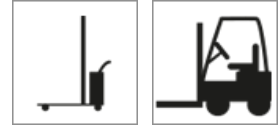
### SUITABLE BATTERIES

PzS wet lead acid

### EXPECTED RECHARGE TIME

9-13H

### MAIN APPLICATIONS



# Serie 3 / 5



### 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: -20 to +40° C no derating - Storage temperature: -20 to +60°C
Max Humidity: 90% without condensation RH

### STANDARD EQUIPMENTS / INTERFACES

SERIE 3	SERIE 5
Automatic start, charging process and shutoff, delayed start to avoid sparks	
5 LED advanced visualization with EAV (easy alarm visualization) and data storage memory	5 LED advanced visualization + integrated DISPLAY for programming, diagnostic, consulting storage data and power-on timer
Universal Electronic Board fully programmable. Diagnostic by external keypad	Universal Electronic Board fully programmable. Diagnostic by DISPLAY
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)	

### 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

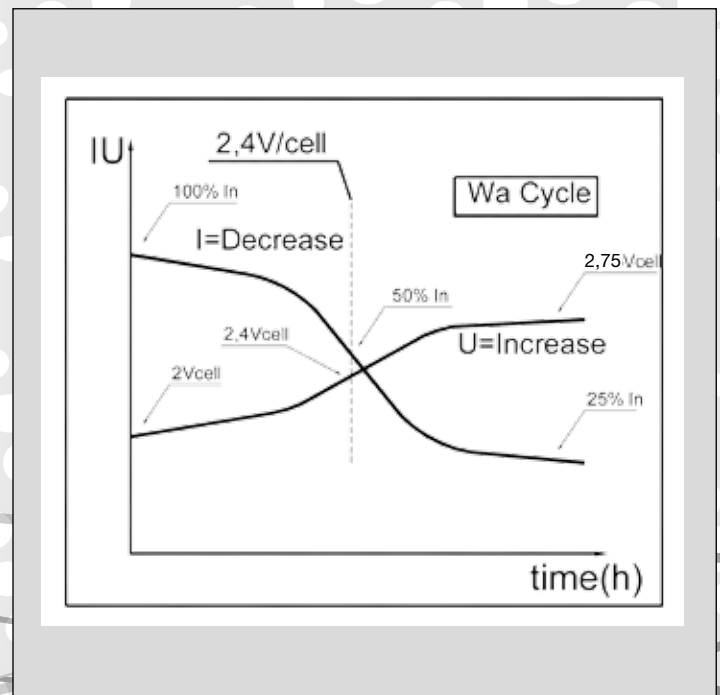
External optional keypad, Special AC-Mains input Vac, 60Hz models, Cables holder, IP55 cabinet
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### Available Voltages / Currents

Nominal Vdc V	Mains (Vac)	Output current A	
		from	to
12V	1x 230 Vac	10 A	120 A
24V	1x 230 Vac	10 A	120 A
	3x 400 Vac	60 A	180 A
36V	1x 230 Vac	20 A	120 A
	3x 400 Vac	60 A	180 A
48V	1x 230 Vac	20 A	120 A
	3x 400 Vac	60 A	180 A
72V	1x 230 Vac	60 A	120 A
	3x 400 Vac	60 A	180 A
80V	1x 230 Vac	60 A	120 A
	3x 400 Vac	60 A	180 A
96V	3x 400 Vac	60 A	160 A

other V/A: on request (contact our sales dept.)

### Wa (DIN41774) charging profile



### 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

### 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

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 voltage of the charger (Vdc) either 230Vac or 400Vac input.

### Casing

