

# ➤ Serie 5 - Fast charger - WOWa - WO pulse

CODING (example) **WOWa**

	MODEL	V	A
▼	▼	▼	▼
1PH	5FCM	24	60
3PH	5FCT		

CODING (example) **WO pulse**

	MODEL	V	A
▼	▼	▼	▼
1PH	5FBE	24	60
3PH	5FBD		

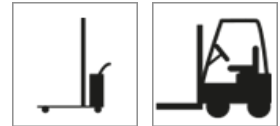
## SUITABLE BATTERIES

PzS wet lead acid

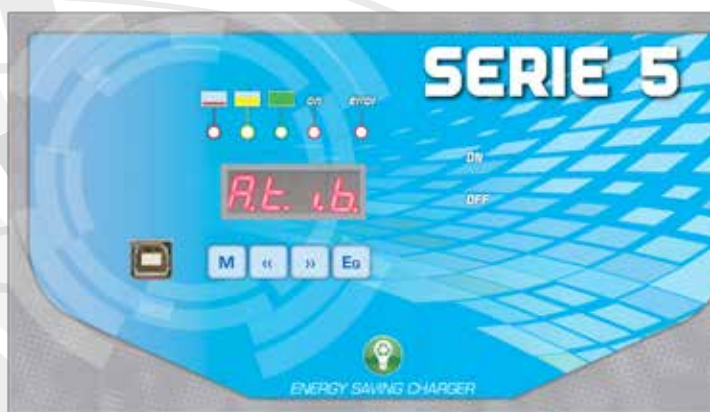
## EXPECTED RECHARGE TIME

7,5-14h

## MAIN APPLICATIONS



# Serie 5 Fast



## TECHNOLOGY

Flux disperse power transformer - taper charger

WOWa / WO Pulse charging profile (DIN 41774)

Electronic charge control by microprocessor

Input voltages available: 1phase 230Vac  $\pm$  5% - 3phase 400Vac  $\pm$  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

Automatic start, charging process and shutoff

5 LED advanced visualization + integrated DISPLAY for programming, diagnostic, and consulting data storage

Universal Electronic Board fully: programming and diagnostic by DISPLAY

Final charging stage: Temporal, Capacitive (CF% and AH accumulated), Derivative dv/dt, Adjustable in respect of battery usage

Power on timer

Delayed start to avoid sparks

USB port: for datalog of last 25 cycles

## 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

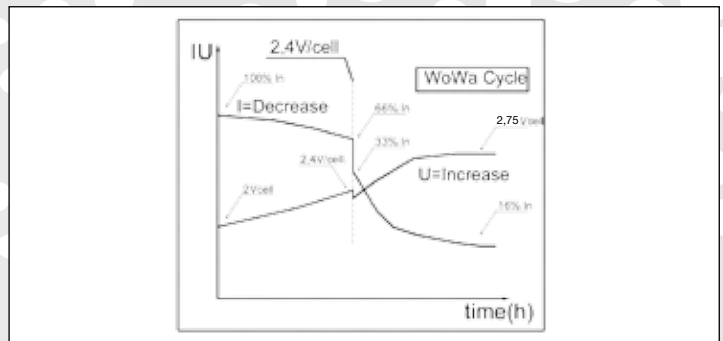
Special AC-Mains input Vac, 60Hz models, Cables holder, IP55 cabinet

### Available Voltages / Currents

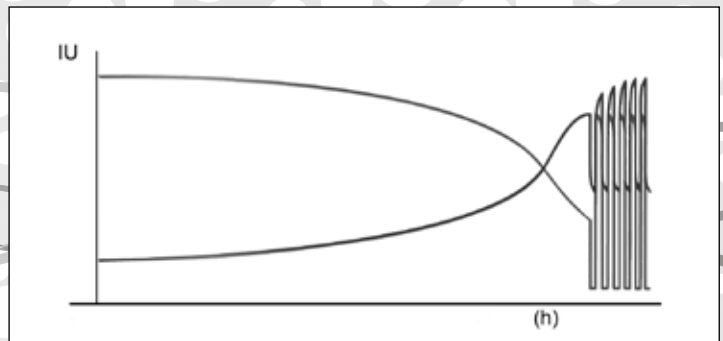
Nominal Vdc V	Mains (Vac)	Output current A	
		from	to
24V	1x 230 Vac	30A	100 A
	3x 400 Vac	60 A	140 A
36V	1x 230 Vac	60 A	100 A
	3x 400 Vac	60 A	180 A
48V	1x 230 Vac	60 A	100 A
	3x 400 Vac	60 A	180 A
72V	3x 400 Vac	80 A	180 A
80V	3x 400 Vac	60 A	180 A

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

### WOWa "FAST" charging profile (7-8h)



### WO "PULSE" charging profile (6,5-14h)



### 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

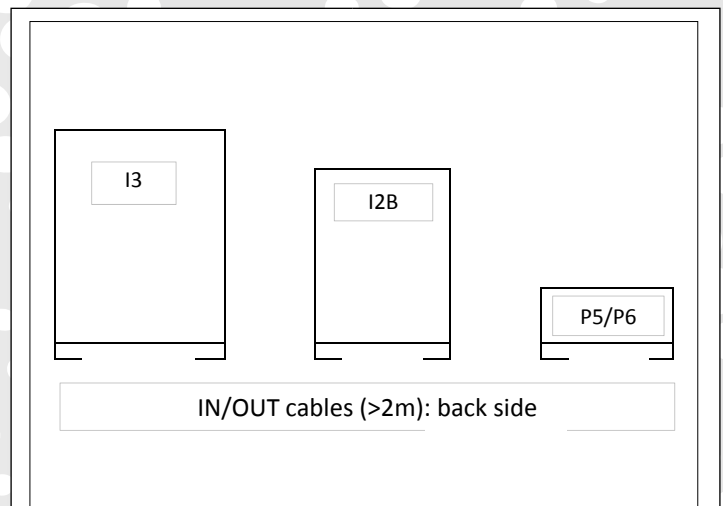
### Consumption & additional information:

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

### Ah recharge table

Output current A	Ampere Hours (C5) Ah			
	7h	8h		
30 A	115	146	WOWa FAST	
40 A	154	195		
50 A	192	244		
60 A	231	293		
80 A	308	390		
100 A	385	488		
120 A	462	585		
140 A	538	683		
160 A	615	780		
180 A	692	878		
	6,5-7,5h	8,5-12h	14h	WO PULSE
60 A	260-310	360-510	620	
80 A	350-410	500-720	820	
100 A	430-520	590-850	1.040	
120 A	520-620	710-1020	1.250	
140 A	610-730	830-1190	1.460	
160 A	700-830	950-1350	1.650	
180 A	770-930	1050-1530	1.850	

### Casing



### Dimensions (Case) mm.

P5:	L350 X D220 X H270
P6:	L480 X D280 X H310
I2B:	L550 X D450 X H900
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 voltage of the charger (Vdc) either 230Vac or 400Vac input.