

SERIE 5- FAST CHARGER W0Wa - W0 pulse

CODING (example) SERIE 3

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

CODING (example) SERIE 5

	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



PRODUCT INTRO

Serie 5 Fast offers our top level conventional charger specifically aimed for quick charge necessities (multiple shift operations) declined into "W0-Pulse" or "W0Wa" DIN 41774 charging characteristics.

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.

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

WOWa / WO Pulse 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

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

additional card for: air system - water fill contact - remote Leds/ on off

Standard VAC Mains:

single-phase 220(230)240 Vac

three-phase 380(400)420 Vac - three-phase 220(230)240 Vac

Vac

switchable up to 48/160,72/100,80/100,96/80

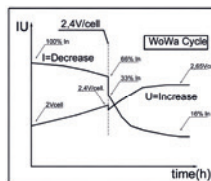
Ah recharge table

Output current A	Ampere Hours (C5)			
	Ah			
	7h	8h	WOWa FAST	
30 A	115	146		
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	

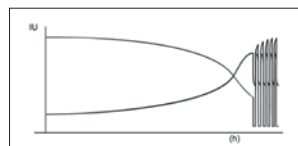
Chart valid for 50Hz Taper chargers.

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.

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



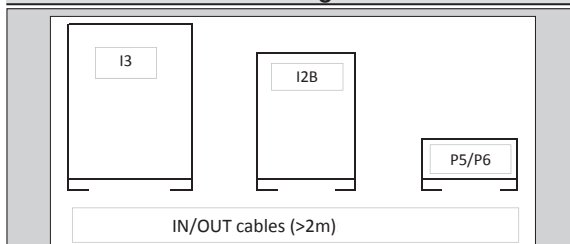
WO "PULSE" charging profile (6,5-14h)



Consumption & additional information:

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

Casing



Dimensions (Case) mm.

P5:	L350 X D220 X H270
P6:	L480 X D280 X H310
I2B:	L550 X D450 X H900
IR3:	L600 X D550 X H1050
I3:	L700 X D550 X H1150