

➤ Serie 2 - Basic line - Wa

CODING (example)

	MODEL	V	A
▼	▼	▼	▼
1PH	2SPM	24	60
3PH	2SPT		

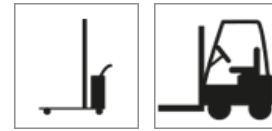
SUITABLE BATTERIES

PzS wet lead acid

EXPECTED RECHARGE TIME

9-13H

MAIN APPLICATIONS



Serie 2



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: 0,82 / 0,88 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

Basic 4 LEDs visualization with EAV (easy alarm visualization)

Universal Electronic Board with equalisation setting (dipswitch on PCB)

Final charging stage: Temporal (3h fixed time)

Delayed start to avoid sparks

SAFETY FEATURES

Reverse polarity protection: fuse

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

Double security timer: gassing point / max charging duration

OPTIONALS

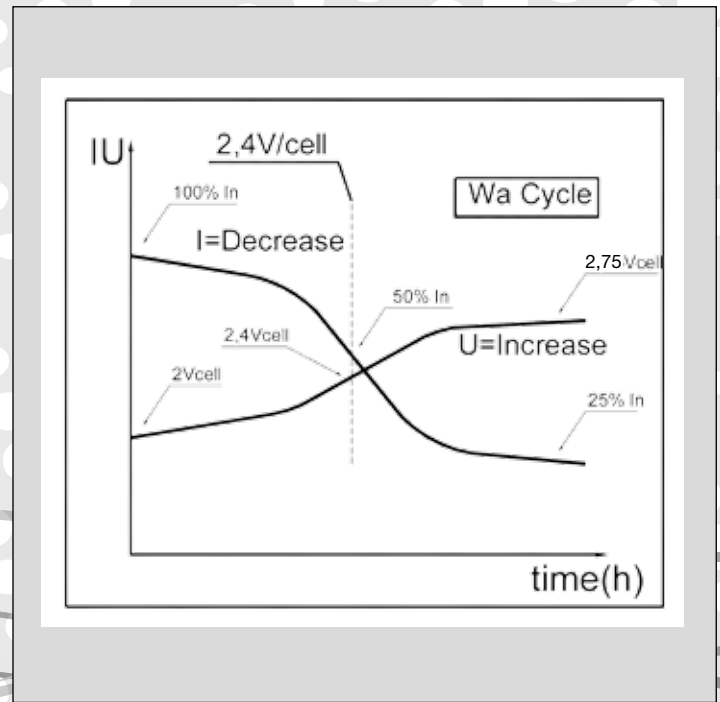
Special AC-Mains input Vac, 60Hz models

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

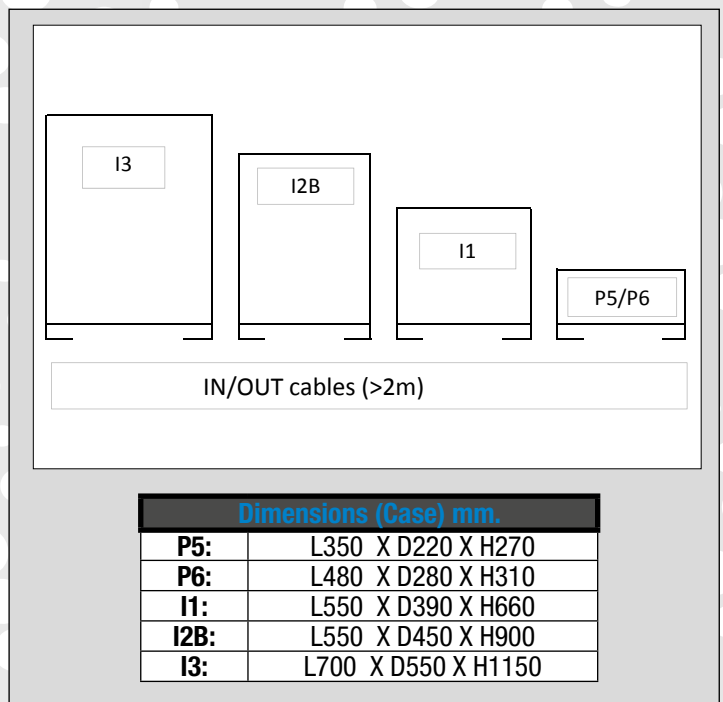
Consumption & additional information:

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

Casing



Dimensions (Case) mm.

P5:	L350 X D220 X H270
P6:	L480 X D280 X H310
I1:	L550 X D390 X H660
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.