

Wa BASIC

Serie 2

Carte de contrôle universel
Universal board



Reconnaissance facile de l'état du chargeur
Easy status detection



Monophasé 230Vac $\pm 5\%$ - Triphasé 400Vac $\pm 5\%$ / 50Hz / degré de protection IP20
 Courbe de charge Wa (9-12h, DIN 41774) pour batteries PzS/Plomb acide ouvert
 Charge finale: durée fixe
 Visualisation par 4 leds / sélecteur phase d'égalisation
 Options: tensions Vacspéciaux, versions 60Hz / soutien câbles

1phase 230Vac $\pm 5\%$ - 3phase 400Vac $\pm 5\%$ / 50Hz / IP20 protection
 Wa charging curve (9-12h, DIN 41774) suitable for PzS batteries
 Final charge: Temporal
 Basic - 4 Leds visualization / Equalization setting
 Optionals: special AC-Mains input Vac, 60Hz models / cables holder.

Wa ADVANCED

Serie 3



Monophasé 230Vac $\pm 5\%$ - Triphasé 400-modifiable 230Vac $\pm 5\%$ / 50Hz/ degré de protection IP20

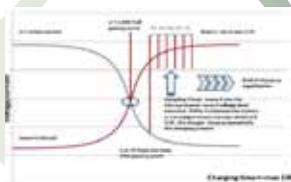
Courbe de charge Wa (9-12h, DIN 41774) pour batteries PzS/Plomb acide ouvert
 Charge finale: durée fixe, Capacitive, contrôle par Dérivé dV/dt
 Visualisation par 5leds/ réglage phase d'égalisation/enregistrement données de charge
 Options: clavier externe pour individuation anomalies, lecture données de charge et programmation/ degré de protection IP55 / tensions speciauxVac, versions 60Hz / roulettes et soutien câbles

1phase 230Vac $\pm 5\%$ - 3phase 400-230Vac switchable $\pm 5\%$ / 50Hz / IP20 protection
 Wa charging curve (9-12h, DIN 41774) suitable for PzS batteries
 Final charge: Temporal, Capacitive, Derivative dV/dt
 Advanced - 5 Leds visualization / Equalization setting / Data storage memory
 Optionals: external Keypad for the diagnostics, data reading and programming/ IP55 protection / special AC-Mains input Vac, 60Hz models / wheels and cables holder.

Programmation/diagnostic
par clavier externe
Programming/diagnostic
by external keypad.



Fin charge dV/dt disponible
dV/dt termination available



Boitier IP55 disponible sur demande
IP55 cabinet available



Wa TOP

Serie 5



Monophasé 230Vac \pm 5% - Triphasé 400-modifiable 230Vac \pm 5% / 50Hz/
degré de protection IP20

Courbe de charge Wa (9-12h, DIN 41774) pour batteries PzS/Plomb acide ouvert

Charge finale: durée fixe, Capacitive, contrôle par Dérivé dV/dt

Visualisation par 5 leds+ afficheur intégré/ réglage phase d'égalisation/
enregistrement données de charge / timer

Options: degré de protection IP55 / tensions speciauxVac, versions 60Hz /
roulettes et soutien câbles

1phase 230Vac \pm 5% - 3phase 400-230Vac switchable \pm 5% / 50Hz / IP20 protection

Wa charging curve (9-12h, DIN 41774) suitable for PzS batteries

Final charge: Temporal, Capacitive, Derivative dV/dt

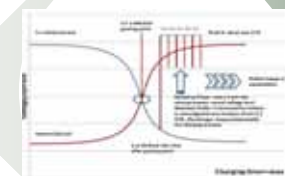
Top - 5 Leds visualization + integrated Display / Equalization setting / Data storage memory / Timer

Optionals: IP55 protection / special AC-Mains input Vac, 60Hz models / wheels and cables holder.

Afficheur:
Pour la programmation et la diagnostic
Display For diagnostic and programming



Fin charge dV/dt disponible
dV/dt termination available



Minuteur Digital: compte à rebours
Digital timer: countdown



Boitier IP55 disponible sur demande
IP55cabinet available



V	A	Vac Input	Code			Ah (C5)			Cabinet Code
			BASIC	ADVANCED	TOP	Wa -- Lead Acid PzS			
						9h	12h	13h	
12	10	1 x 230	2SPM 12/ 10	3STM 12/ 10	5STM 12/ 10	50	67	72	P5
	15	1 x 230	2SPM 12/ 15	3STM 12/ 15	5STM 12/ 15	74	100	107	P5
	20	1 x 230	2SPM 12/ 20	3STM 12/ 20	5STM 12/ 20	99	133	143	P5
	25	1 x 230	2SPM 12/ 25	3STM 12/ 25	5STM 12/ 25	124	167	179	P5
	30	1 x 230	2SPM 12/ 30	3STM 12/ 30	5STM 12/ 30	149	200	215	P5
	40	1 x 230	2SPM 12/ 40	3STM 12/ 40	5STM 12/ 40	198	267	286	P5
	50	1 x 230	2SPM 12/ 50	3STM 12/ 50	5STM 12/ 50	248	333	358	P6
	60	1 x 230	2SPM 12/ 60	3STM 12/ 60	5STM 12/ 60	297	400	430	P6
	80	1 x 230	2SPM 12/ 80	3STM 12/ 80	5STM 12/ 80	396	533	573	P6
	100	1 x 230	2SPM 12/ 100	3STM 12/ 100	5STM 12/ 100	495	667	716	P6
	120	1 x 230	2SPM 12/ 120	3STM 12/ 120	5STM 12/ 120	594	800	859	I2B
24	10	1 x 230	2SPM 24/ 10	3STM 24/ 10	5STM 24/ 10	50	67	72	P5
	15	1 x 230	2SPM 24/ 15	3STM 24/ 15	5STM 24/ 15	74	100	107	P5
	20	1 x 230	2SPM 24/ 20	3STM 24/ 20	5STM 24/ 20	99	133	143	P5
	25	1 x 230	2SPM 24/ 25	3STM 24/ 25	5STM 24/ 25	124	167	179	P5
	30	1 x 230	2SPM 24/ 30	3STM 24/ 30	5STM 24/ 30	149	200	215	P5
	40	1 x 230	2SPM 24/ 40	3STM 24/ 40	5STM 24/ 40	198	267	286	P5
	50	1 x 230	2SPM 24/ 50	3STM 24/ 50	5STM 24/ 50	248	333	358	P6
	60	1 x 230	2SPM 24/ 60	3STM 24/ 60	5STM 24/ 60	597	400	430	P6
		3 x 400	2SPT 24/ 60	3STT 24/ 60	5STT 24/ 60				I1 / I2B
	80	1 x 230	2SPM 24/ 80	3STM 24/ 80	5STM 24/ 80	396	533	573	P6
		3 x 400	2SPT 24/ 80	3STT 24/ 80	5STT 24/ 80				I1 / I2B
	100	1 x 230	2SPM 24/ 100	3STM 24/ 100	5STM 24/ 100	495	667	716	I2B
		3 x 400	2SPT 24/ 100	3STT 24/ 100	5STT 24/ 100				I1 / I2B
	120	1 x 230	2SPM 24/ 120	3STM 24/ 120	5STM 24/ 120	594	800	859	I2B
		3 x 400	2SPT 24/ 120	3STT 24/ 120	5STT 24/ 120				I1 / I2B
	140	1 x 230	*	*	*	693	933	1.003	I1 / I2B
		3 x 400	2SPT 24/ 140	3STT 24/ 140	5STT 24/ 140				
	160	1 x 230	*	*	*	792	1.067	1.146	I1 / I2B
3 x 400		2SPT 24/ 160	3STT 24/ 160	5STT 24/ 160					
180	1 x 230	*	*	*	891	1.200	1.289	I2B	
	3 x 400	2SPT 24/ 180	3STT 24/ 180	5STT 24/ 180					
36	20	1 x 230	2SPM 36/ 20	3STM 36/ 20	5STM 36/ 20	99	133	143	P5
	25	1 x 230	2SPM 36/ 25	3STM 36/ 25	5STM 36/ 25	124	167	179	P5
	30	1 x 230	2SPM 36/ 30	3STM 36/ 30	5STM 36/ 30	149	200	215	P6
	40	1 x 230	2SPM 36/ 40	3STM 36/ 40	5STM 36/ 40	198	267	286	P6
	50	1 x 230	2SPM 36/ 50	3STM 36/ 50	5STM 36/ 50	248	333	358	P6
	60	1 x 230	2SPM 36/ 60	3STM 36/ 60	5STM 36/ 60	597	400	430	P6
		3 x 400	2SPT 36/ 60	3STT 36/ 60	5STT 36/ 60				I1 / I2B
	80	1 x 230	2SPM 36/ 80	3STM 36/ 80	5STM 36/ 80	396	533	573	P6
		3 x 400	2SPT 36/ 80	3STT 36/ 80	5STT 36/ 80				I1 / I2B
	100	1 x 230	2SPM 36/ 100	3STM 36/ 100	5STM 36/ 100	495	667	716	I2B
		3 x 400	2SPT 36/ 100	3STT 36/ 100	5STT 36/ 100				I1 / I2B
	120	1 x 230	2SPM 36/ 120	3STM 36/ 120	5STM 36/ 120	594	800	859	I2B
		3 x 400	2SPT 36/ 120	3STT 36/ 120	5STT 36/ 120				I1 / I2B
	140	1 x 230	*	*	*	693	933	1.003	I2B
		3 x 400	2SPT 36/ 140	3STT 36/ 140	5STT 36/ 140				
	160	1 x 230	*	*	*	792	1.067	1.146	I2B
		3 x 400	2SPT 36/ 160	3STT 36/ 160	5STT 36/ 160				
	180	1 x 230	*	*	*	891	1.200	1.289	I2B
3 x 400		2SPT 36/ 180	3STT 36/ 180	5STT 36/ 180					

* on demand

V	A	Vac Input	Code			Ah (C5)			Cabinet Code	
						Wa -- Lead Acid PzS				
			BASIC	ADVANCED	TOP	9h	12h	13h		
48	30	1 x 230	2SPM 48/ 30	3STM 48/ 30	5STM 48/ 30	149	200	215	P6	
	40	1 x 230	2SPM 48/ 40	3STM 48/ 40	5STM 48/ 40	198	267	286	P6	
	50	1 x 230	2SPM 48/ 50	3STM 48/ 50	5STM 48/ 50	248	333	358	P6	
	60	1 x 230	2SPM 48/ 60	3STM 48/ 60	5STM 48/ 60	597	400	430	P6	
		3 x 400	2SPT 48/ 60	3STT 48/ 60	5STT 48/ 60				I1 / I2B	
	80	1 x 230	2SPM 48/ 80	3STM 48/ 80	5STM 48/ 80	396	533	573	I1 / I2B	
		3 x 400	2SPT 48/ 80	3STT 48/ 80	5STT 48/ 80				I1 / I2B	
	100	1 x 230	2SPM 48/ 100	3STM 48/ 100	5STM 48/ 100	495	667	716	I2B	
		3 x 400	2SPT 48/ 100	3STT 48/ 100	5STT 48/ 100				I1 / I2B	
	120	1 x 230	2SPM 48/ 120	3STM 48/ 120	5STM 48/ 120	594	800	859	I2B	
		3 x 400	2SPT 48/ 120	3STT 48/ 120	5STT 48/ 120				I1 / I2B	
	140	1 x 230	*	*	*	693	933	1.003	I2B	
		3 x 400	2SPT 48/ 140	3STT 48/ 140	5STT 48/ 140					
	160	1 x 230	*	*	*	792	1.067	1.146	I2B	
		3 x 400	2SPT 48/ 160	3STT 48/ 160	5STT 48/ 160					
	180	1 x 230	*	*	*	891	1.200	1.289	I2B	
		3 x 400	2SPT 48/ 180	3STT 48/ 180	5STT 48/ 180					
	72	60	1 x 230	2SPM 72/ 60	3STM 72/ 60	5STM 72/ 60	597	400	430	I2B
3 x 400			2SPT 72/ 60	3STT 72/ 60	5STT 72/ 60	I1 / I2B				
80		1 x 230	2SPM 72/ 80	3STM 72/ 80	5STM 72/ 80	396	533	573	I2B	
		3 x 400	2SPT 72/ 80	3STT 72/ 80	5STT 72/ 80				I1 / I2B	
100		1 x 230	2SPM 72/ 100	3STM 72/ 100	5STM 72/ 100	495	667	716	I2B	
		3 x 400	2SPT 72/ 100	3STT 72/ 100	5STT 72/ 100				I1 / I2B	
120		1 x 230	2SPM 72/ 120	3STM 72/ 120	5STM 72/ 120	594	800	859	I2B	
		3 x 400	2SPT 72/ 120	3STT 72/ 120	5STT 72/ 120					
140		1 x 230	*	*	*	693	933	1.003	I2B	
		3 x 400	2SPT 72/ 140	3STT 72/ 140	5STT 72/ 140					
160		1 x 230	*	*	*	792	1.067	1.146	I2B	
		3 x 400	2SPT 72/ 160	3STT 72/ 160	5STT 72/ 160					
180		1 x 230	*	*	*	891	1.200	1.289	I3	
		3 x 400	2SPT 72/ 180	3STT 72/ 180	5STT 72/ 180					
80		60	1 x 230	2SPM 80/ 60	3STM 80/ 60	5STM 80/ 60	597	400	430	I2B
			3 x 400	2SPT 80/ 60	3STT 80/ 60	5STT 80/ 60				I1 / I2B
		80	1 x 230	2SPM 80/ 80	3STM 80/ 80	5STM 80/ 80	396	533	573	I2B
			3 x 400	2SPT 80/ 80	3STT 80/ 80	5STT 80/ 80				I1 / I2B
	100	1 x 230	2SPM 80/ 100	3STM 80/ 100	5STM 80/ 100	495	667	716	I2B	
		3 x 400	2SPT 80/ 100	3STT 80/ 100	5STT 80/ 100				I1 / I2B	
	120	1 x 230	2SPM 80/ 120	3STM 80/ 120	5STM 80/ 120	594	800	859	I2B	
		3 x 400	2SPT 80/ 120	3STT 80/ 120	5STT 80/ 120					
	140	1 x 230	*	*	*	693	933	1.003	I3	
		3 x 400	2SPT 80/ 140	3STT 80/ 140	5STT 80/ 140					
	160	1 x 230	*	*	*	792	1.067	1.146	I3	
		3 x 400	2SPT 80/ 160	3STT 80/ 160	5STT 80/ 160					
	180	1 x 230	*	*	*	891	1.200	1.289	I3	
		3 x 400	2SPT 80/ 180	3STT 80/ 180	5STT 80/ 180					
	96	60	1 x 230	*	*	*	597	400	430	I1 / I2B
			3 x 400	2SPT 96/ 60	3STT 96/ 60	5STT 96/ 60				
		80	1 x 230	*	*	*	396	533	573	I1 / I2B
			3 x 400	2SPT 96/ 80	3STT 96/ 80	5STT 96/ 80				
100		1 x 230	*	*	*	495	667	716	I1 / I2B	
		3 x 400	2SPT 96/ 100	3STT 96/ 100	5STT 96/ 100					
120		1 x 230	*	*	*	594	800	859	I2B	
		3 x 400	2SPT 96/ 120	3STT 96/ 120	5STT 96/ 120					
140		1 x 230	*	*	*	693	933	1.003	I3	
		3 x 400	2SPT 96/ 140	3STT 96/ 140	5STT 96/ 140					
160		1 x 230	*	*	*	792	1.067	1.146	I3	
		3 x 400	2SPT 96/ 160	3STT 96/ 160	5STT 96/ 160					

Cabinet Type & Dimensions in 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

* on demand
single-phase 220(230)240 Vac
Three-phase 380(400)420 Vac (three-phase 220(230)240 Fino a / Up to 48/160, 72/100, 80/100, 96/80)