Battery Charger

TECHNICAL GENERAL REMARKS

- *Single-phase input supply 230 VAC - Frequency 50/60 Hz.*
  Three-phase input supply 230/400 VAC - Frequency 50/60 Hz.

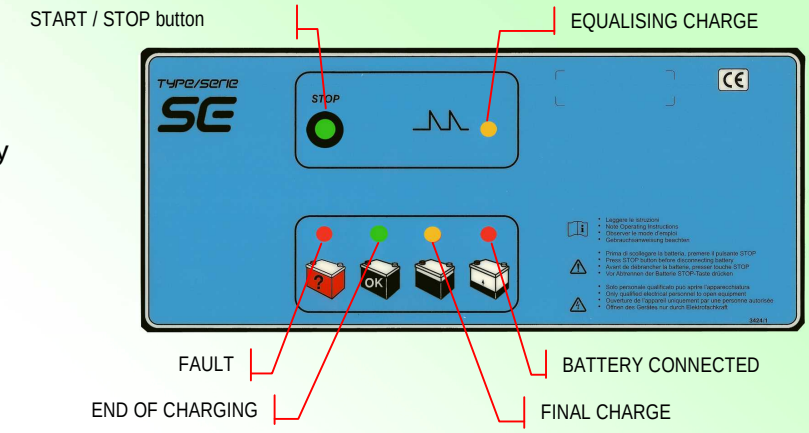
- Output voltage: **24/36/48/72/80 VDC**.
- Charging system with decreasing current (**Wa** characteristic): 9 ÷ 11 hours charging time.
- Tropicalized stray-flux transformer, high quality windings with double enamel insulation, class H, impregnated with non-toxic resins, kiln-dried.
- Overload cutout on transformer.
- Rectifier bridge equipped with DC output fuse.
- Polycarbonate plate with charging data very easy to understand.
- Final acceptance test conforming to safety regulations.
- Complete with mains and battery cables
  (assembly of plugs and battery connectors on request).

- New electronic controller *PBM 751* with microprocessor:

  - Electronic board supply on battery (min. 20V DC)
  - Independent ON/OFF relay contacts with range 250V/16A
  - Automatic start (Autostart 5 sec. or 3 hours)
  - Final charge time (3 or 4 hours)
  - Safety timer at 9h or 11h (on I charging phase)
  - Quick test
  - Proportional charge (selectable)
  - Equalising charge (selectable)
  - START/STOP button on electronic board
  - Two setting mode: preset and adjustable
  - “Manual” operation option
  - Protection fuse on electronic board

LED SIGNALLING

- Immediate readout of the charging phases by means of **5 LEDs signalling**.
- Fault signalling for an immediate failure diagnostics.



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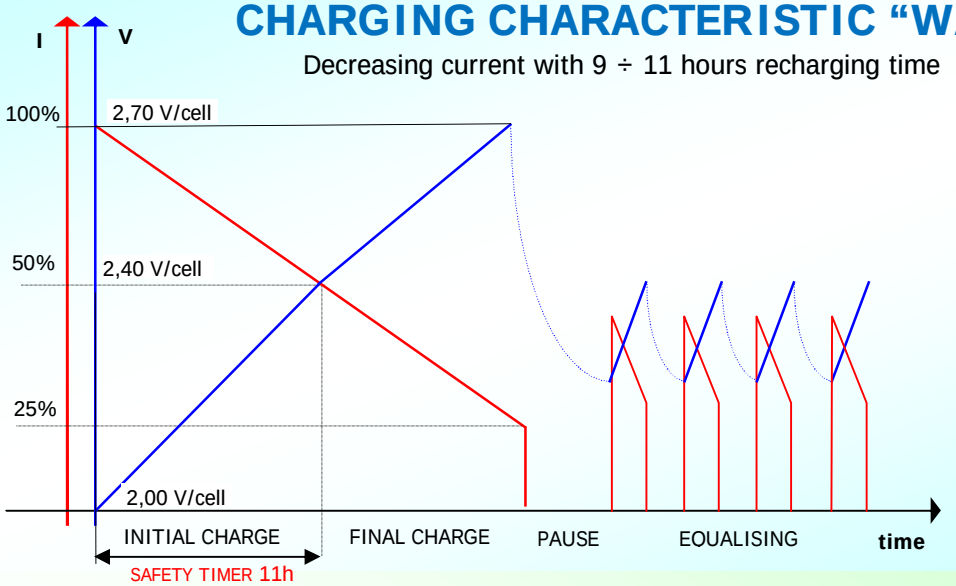
CHARGING CHARACTERISTIC "WA"

Decreasing current with 9 ÷ 11 hours recharging time



TYPE	CODE Single-phase	CODE Three-phase	BOX	ABSORPTION Single-phase		ABSORPTION Three-phase			LEAD ACID BATTERY
				230 V	POWER	400 V	230 V	POWER	Wa
				(A)	(kW)	(A)	(A)	(kW)	*Ah (9 ÷11 h)*
24V / 80A	500	100	S	12,9	2,37	4,04	7,03	2,24	max 480
24V / 100A	502	102	S	16,1	2,96	5,05	8,79	2,80	max 600
24V / 120A	504	104	S	19,3	3,56	6,06	10,5	3,36	max 700
24V / 140A	506	106	S	22,5	4,15	7,07	12,3	3,92	max 800
24V / 160A	508	108	S	25,8	4,74	8,08	14,1	4,48	max 930
24V / 180A	-	145	N	-	-	9,09	15,8	5,04	max 1080
36V / 60A	520	150	S	14,5	2,67	4,55	7,91	2,52	max 350
36V / 80A	522	152	S	19,3	3,56	6,06	10,5	3,36	max 480
36V / 100A	524	154	S	24,2	4,45	7,58	13,2	4,20	max 600
36V / 120A	526	156	S	29,0	5,34	9,09	15,8	5,04	max 700
36V / 140A	528	158	S	33,8	6,23	10,6	18,4	5,88	max 800
36V / 160A	530	160	N	38,7	7,12	12,1	21,1	6,72	max 930
36V / 180A	-	162	N	-	-	13,6	23,7	7,56	max 1080
48V / 60A	540	110	S	19,3	3,56	6,06	10,54	3,36	max 350
48V / 80A	542	112	S	25,8	4,74	8,08	14,1	4,48	max 480
48V / 100A	544	114	S	32,3	5,93	10,1	17,6	5,60	max 600
48V / 120A	546	116	N	38,7	7,12	12,1	21,1	6,72	max 700
48V / 140A	548	118	N	45,1	8,30	14,1	24,6	7,84	max 800
48V / 160A	549	120	N	52,0	9,49	16,2	28,1	8,96	max 930
72V / 60A	560	124	S	29,0	5,34	9,09	15,8	5,04	max 350
72V / 80A	562	126	S	38,7	7,12	12,1	21,1	6,72	max 480
72V / 100A	564	128	N	48,3	8,89	15,2	26,4	8,40	max 600
72V / 120A	566	130	N	58,0	10,67	18,2	31,6	10,8	max 700
72V / 140A	-	132	N	-	-	21,2	36,9	11,7	max 800
80V / 60A	580	136	S	32,3	5,93	13,4	23,4	5,60	max 350
80V / 80A	582	138	S	42,9	7,91	16,8	29,3	7,47	max 480
80V / 100A	584	140	N	53,7	9,88	20,2	35,1	9,33	max 600
80V / 120A	586	142	N	64,4	11,86	23,6	41,0	11,2	max 700
80V / 140A	-	144	N	-	-	26,9	48,8	13,1	max 800

Regulations:

Conformity to the EMC-directive **2004/108/CEE**.
Conformity to the Low Voltage directive **2006/95/CEE**.

Cabinet: Protection class: IP 20.
Varnished with epoxy paint after washing and passivation treatment.
Standard colours: RAL 5002B (blue) e RAL 7035L (grey).
Dimensions mm : "S" = 500 (L) x 400 (P) x 800 (H) "N" = 500 (L) x 400 (P) x 1000 (H)

PBM srl
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