



RTM2-RPM2 BATTERY CHARGER

MICROPROCESSOR CONTROLLED CHARGER

FOR TRACTION BATTERIES



The RTM2 / RPM2 charger is available as 400/230V, 50/60 Hz, three phase input model and 230V, 50/60 Hz, single phase input model. The unit is suited to the recharging needs of lead acid traction batteries.

TECHNICAL SPECIFICATIONS

- WA charging mode, in compliance with curve DIN 41774
- recharge time as low as 8 hours, making it suitable for multishift operations, and up to 11h for overnight charging
- start delay: diagnostics check for correct battery and state of battery
- pre-charging mode (1h); detection system ensuring prevention of overcharging and charge inhibit for excessively overdischarged batteries
- desulphating charge
- proportional Charge
- Pulsed equalising mode
- maintenance charge
- microprocessor controlled and multi-voltage pc board
- charging progress display
- all stages are monitored and covered by security systems
- reliability and quality gained from years of design experience



Nuova Elettra

Output voltage (V)	Battery Capacity 8-11h recharge time (Ah)	Current (A)	Input voltage (Vac)	Weight (Kg)	Charger type	Tipo di telaio
12	55÷70	10	230	12	RPM-2 12/10	A5
12	85÷105	15	230	12	RPM-2 12/15	A5
12	115÷140	20	230	13	RPM-2 12/20	A5
12	145÷175	25	230	14	RPM-2 12/25	A5
12	175÷210	30	230	15	RPM-2 12/30	A5
12	225÷275	40	230	17	RPM-2 12/40	A5
12	290÷345	50	230	19	RPM-2 12/50	A5
12	345÷375	60	230	21	RPM-2 12/60	A5
24	55÷70	10	230	13	RPM-2 24/10	A5
24	85÷105	15	230	14	RPM-2 24/15	A5
24	115÷140	20	230	15	RPM-2 24/20	A5
24	145÷175	25	230	16	RPM-2 24/25	A5
24	175÷210	30	230	17	RPM-2 24/30	A5
24	225÷275	40	230	19	RPM-2 24/40	A5
24	290÷345	50	230	22	RPM-2 24/50	A5
24	345÷375	60	230	25	RPM-2 24/60	A5
24	400÷465	70	230	30	RPM-2 24/70	A4
36	175÷210	30	230	22	RPM-2 36/30	A5
36	225÷275	40	230	24	RPM-2 36/40	A5
36	290÷345	50	230	26	RPM-2 36/50	A5
36	345÷375	60	230	27	RPM-2 36/60	A4
48	85÷105	15	230	26	RPM-2 48/15	A5
48	115÷140	20	230	27	RPM-2 48/20	A5
48	175÷210	30	230	27	RPM-2 48/30	A5
48	225÷275	40	230	28	RPM-2 48/40	A4
24	345÷375	60	3x400	39	RTM-2 24/60	A2
24	465÷525	80	3x400	44	RTM-2 24/80	A2
24	580÷630	100	3x400	47	RTM-2 24/100	A2
24	690÷775	120	3x400	52	RTM-2 24/120	A2
24	810÷875	140	3x400	56	RTM-2 24/140	A2
24	925÷1000	160	3x400	57	RTM-2 24/160	A2
24	1045÷1125	180	3x400	68	RTM-2 24/180	A2
36	345÷375	60	3x400	50	RTM-2 36/60	A2
36	465÷525	80	3x400	50	RTM-2 36/80	A2
36	580÷630	100	3x400	51	RTM-2 36/100	A2
36	690÷775	120	3x400	57	RTM-2 36/120	A2
36	840÷975	150	3x400	65	RTM-2 36/150	A2
48	345÷375	60	3x400	50	RTM-2 48/60	A2
48	465÷525	80	3x400	52	RTM-2 48/80	A2
48	580÷630	100	3x400	56	RTM-2 48/100	A2
48	690÷775	120	3x400	61	RTM-2 48/120	A2
48	810÷875	140	3x400	67	RTM-2 48/140	A2
48	925÷1000	160	3x400	85	RTM-2 48/160	A2
48	1045÷1125	180	3x400	91	RTM-2 48/180	A2
48	1160÷1300	200	3x400	99	RTM-2 48/200	A1
72	345÷375	60	3x400	61	RTM-2 72/60	A2
72	465÷525	80	3x400	65	RTM-2 72/80	A2
72	580÷630	100	3x400	71	RTM-2 72/100	A2
72	690÷775	120	3x400	78	RTM-2 72/120	A2
72	810÷875	140	3x400	90	RTM-2 72/140	A1
80	345÷375	60	3x400	66	RTM-2 80/60	A2
80	465÷525	80	3x400	68	RTM-2 80/80	A2
80	580÷630	100	3x400	79	RTM-2 80/100	A2
80	690÷775	120	3x400	86	RTM-2 80/120	A2
80	810÷875	140	3x400	95	RTM-2 80/140	A1
80	925÷1000	160	3x400	109	RTM-2 80/160	A1
96	290÷345	50	3x400	65	RTM-2 96/50	A2
96	345÷375	60	3x400	76	RTM-2 96/60	A2
96	465÷525	80	3x400	88	RTM-2 96/80	A2
96	580÷630	100	3x400	95	RTM-2 96/100	A1
96	690÷775	120	3x400	100	RTM-2 96/120	A1



RTM2-RPM2

CHARGE PATTERN

- **Pre-Charging:** preventing overcharging of fully charged batteries and inhibit charge for over discharged batteries.
- **Bulk charge:** battery is charged until the gassing voltage (2,40 VPC).
- **Proportional Charge:** gassing charged duration governed by Bulk charge duration, to compensate for the degree of discharge.
- **Equalising:** bringing all cells to a fully charged condition; equalising mode will follow the end of charge.
- **Maintenance Charge:** maintaining the battery in a fully charged condition when it is stood out of service.

PROTECTIONS

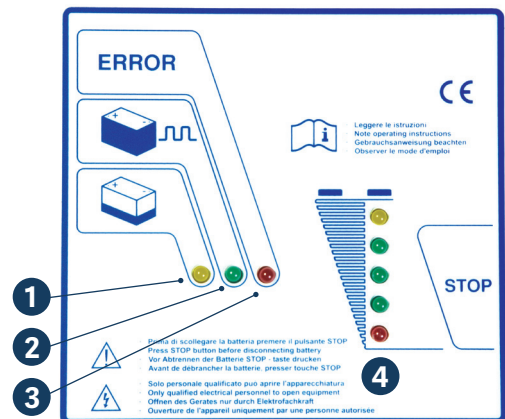
Off switch: the unit is automatically switched off by pushing the button. Charging cannot be resumed.

Overall charge time: 13h charging if charger sequence malfunctions. Malfunction of charging sequence is indicated by illumination of a red diode.

RPM2/RTM2 is protected against faults or incorrect battery connection. The unit incorporates a self-diagnostic system in the event of the following:

- **overdischarged battery detection**
- **battery disconnect shutdown**
- **thermal cut-out**
- **maintenance charge shutdown**
- **phase failure detection**

DISPLAY



1. **YELLOW LED:** battery connected / charge on
2. **GREEN LED:** equalising / maintenance charge
3. **RED LED:** error
4. **FIVE LED'S INDICATE BATTERY VOLTAGE OR STATE OF CHARGE**

TYPE	HEIGHT (H . mm)	WIDTH (W . mm)	DEPTH (D . mm)
A1	900	500	400
A2	760	500	400
A4	375	375	315
A5	335	298	300



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Certificato numero 15152
ISO 9001, ISO 14001

Nuova Elettra s.r.l. _ I-46029 Suzzara MN _ via Galvani, 2a (Z.A. Rangavino)
tel +39 0376 539011 _ fax +39 0376 532916 _ info@nuovaelettra.it _ www.nuovaelettra.it