



**Energy Saving**



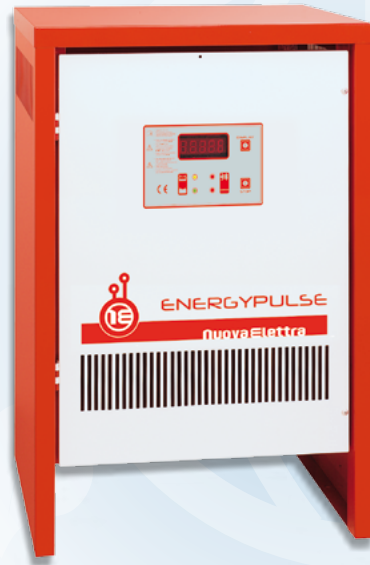
**LOW CHARGE FACTOR  
SAVE ENERGY**



**SUPERB BATTERY  
CARE**

# ENERGY PULSE

## BENEFITS OF PULSE CHARGING TECHNOLOGY



- Reduced water consumption due to low temperature rise
- Reduced battery maintenance and improved battery lifetime
- The low charge factor leads to a significant reduction of costs, because less energy is consumed for each charge



Available as

3Ph 400/230V and 1Ph 230V Input Voltage, 50-60 Hz  
WpWa charging mode

- Engineered for one or two shift operations
- Lower charge factor
- Selectable delayed start to take advantage of off-peak electricity
- Charging pattern based on charge factor calculation
- Equalising and Maintenance charge
- Facility to adjust:
  - charge factor
  - gassing voltage
  - start delay
  - equalisation charge duration
- Multi-Voltage controller
- Alphanumeric display: key information including total voltage, charge current, amps returned, accumulated charge time and diagnostics
- Thermal cut-out



### ENERGY PULSE PREMIUM

The last 2500 Charge cycles are hold in memory  
Archive Download function (USB)

B@tview software to store and analyze archive data

LCD display indicating status of the charger  
and settings

Optional: Battery temperature probe, external lamp,  
automatic water refill



### ENERGY PULSE<sup>air</sup> PREMIUM

With pump module for electrolyte mixing

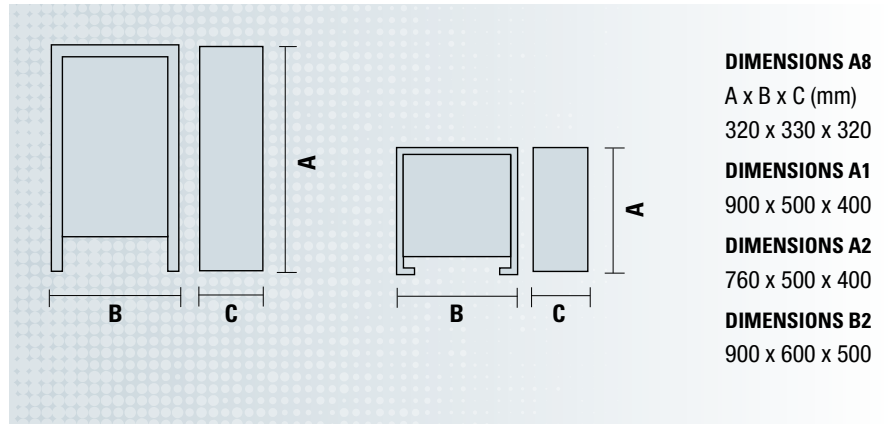
Energy saving and smooth opportunity charging

Reduced charge time (0,75h)



**Nuova Elettra**

ENERGY PULSE Type	Battery Voltage (V)	Nominal Current (A)	Input Voltage (Vac)		Input Voltage (Vac)	Cabinet	Weight (Kg)
			7,5 : 8,5h	8,5 : 12h			
1ph 24/30	24	30	165-190	190-270	230	A8	17
1ph 24/40	24	40	220-250	250-360	230	A8	19
1ph 24/50	24	50	275-315	315-450	230	A8	22
1ph 24/60	24	60	330-380	380-540	230	A8	25
1ph 24/70	24	70	385-440	440-630	230	A8	37
1ph 24/80	24	80	440-500	500-720	230	A2	39
1ph 24/100	24	100	550-630	630-900	230	A2	42
1ph 36/40	36	40	220-250	250-360	230	A8	27
1ph 36/50	36	50	275-315	315-450	230	A8	45
1ph 36/60	36	60	330-380	380-540	230	A8	47
1ph 48/60	48	60	330-380	380-540	230	A2	38
1ph 48/80	48	80	440-500	500-720	230	A2	39
1ph 48/100	48	100	550-630	630-900	230	A2	42
3ph 24/60	24	60	330-380	380-540	3x400	A2	48
3ph 24/80	24	80	440-500	500-720	3x400	A2	53
3ph 24/100	24	100	550-630	630-900	3x400	A2	56
3ph 24/120	24	120	660-750	750-1080	3x400	A2	61
3ph 24/140	24	140	770-880	880-1260	3x400	A2	65
3ph 24/160	24	160	880-1010	1010-1440	3x400	A2	67
3ph 24/180	24	180	990-1130	1130-1620	3x400	A2	71
3ph 24/200	24	200	1100-1260	1260-1800	3x400	A2	78
3ph 24/220	24	220	1210-1385	1385-1980	3x400	A2	85
3ph 36/80	36	80	440-500	500-720	3x400	A2	60
3ph 36/100	36	100	550-630	630-900	3x400	A2	63
3ph 36/120	36	120	660-750	750-1080	3x400	A2	67
3ph 36/140	36	140	770-880	880-1260	3x400	A2	70
3ph 36/160	36	160	880-1010	1010-1440	3x400	A2	74
3ph 36/180	36	180	990-1130	1135-1620	3x400	A2	78
3ph 48/80	48	80	440-500	500-720	3x400	A2	68
3ph 48/100	48	100	550-630	630-900	3x400	A2	71
3ph 48/120	48	120	660-750	750-1080	3x400	A2	76
3ph 48/140	48	140	770-880	880-1260	3x400	A2	82
3ph 48/160	48	160	880-1010	1010-1440	3x400	A2	87
3ph 48/180	48	180	990-1130	1135-1620	3x400	A2	93
3ph 48/200	48	200	1100-1260	1260-1800	3x400	A2	101
3ph 48/220	48	220	1210-1385	1385-1980	3x400	A1	116
3ph 72/80	72	80	440-500	500-720	3x400	A2	86
3ph 72/100	72	100	550-630	630-900	3x400	A2	90
3ph 72/120	72	120	660-750	750-1080	3x400	A2	93
3ph 72/140	72	140	770-880	880-1260	3x400	A1	100
3ph 72/160	72	160	880-1010	1010-1440	3x400	A1	106
3ph 72/180	72	180	990-1130	1130-1620	3x400	B2	135
3ph 72/200	72	200	1100-1260	1260-1800	3x400	B2	138
3ph 80/80	80	80	440-500	500-720	3x400	A2	80
3ph 80/100	80	100	550-630	630-900	3x400	A2	84
3ph 80/120	80	120	660-750	750-1080	3x400	A2	91
3ph 80/140	80	140	770-880	880-1260	3x400	A1	97
3ph 80/160	80	160	880-1010	1010-1440	3x400	A1	107
3ph 80/180	80	180	990-1130	1130-1620	3x400	B2	143
3ph 80/200	80	200	1100-1260	1260-1800	3x400	B2	146



**DIMENSIONS A8**  
A x B x C (mm)  
320 x 330 x 320

**DIMENSIONS A1**  
900 x 500 x 400

**DIMENSIONS A2**  
760 x 500 x 400

**DIMENSIONS B2**  
900 x 600 x 500



<b>Operator</b> Paolo Rossi	<b>Date</b> 20/11/2014
<b>Type</b> 48/100	<b>Cycles counter</b> 199
<b>Model</b> ENERGY PULSE PREMIUM	<b>Hour counter</b> 1523 hh : 26 min
<b>Serial number</b> 14009040	<b>Ah counter</b> 110761
	<b>kWh counter</b> 6599

Date/time	Cycle	Charge time	Eq time	Ah Tot	Vstart	Vend	kWh	TStart-TMax	Fault
14/06/2014 ; 17:04	7	00 hh: 00 min	00 hh: 00 min	0	50,7	55,1	0,0	START 29, MAX 30	Charge not completed I <sub>max</sub>
14/06/2014 ; 17:26	8	02 hh: 06 min	10 hh: 00 min	109	50,8	63,2	7,1	START 30, MAX 40	
16/06/2014 ; 19:34	9	10 hh: 03 min	10 hh: 00 min	698	46,6	63,4	42,8	START 28, MAX 38	
17/06/2014 ; 16:04	10	03 hh: 36 min	00 hh: 00 min	323	46,7	55,4	18,8	START 32, MAX 38	Dropped battery I <sub>min</sub>
17/06/2014 ; 19:44	11	10 hh: 32 min	00 hh: 00 min	749	45,6	63,6	45,4	START 34, MAX 38	
18/06/2014 ; 09:15	12	01 hh: 00 min	06 hh: 04 min	54	51,4	63,8	3,8	START 28, MAX 38	
18/06/2014 ; 16:22	13	10 hh: 29 min	00 hh: 00 min	748	46,4	63,2	44,3	START 33, MAX 37	
19/06/2014 ; 21:31	14	09 hh: 54 min	00 hh: 00 min	749	45,2	63,2	43,9	START 27, MAX 36	
23/06/2014 ; 07:29	15	01 hh: 09 min	00 hh: 00 min	103	46,8	50,9	5,6	START 27, MAX 38	Charge not completed I <sub>max</sub>
23/06/2014 ; 09:10	16	01 hh: 42 min	00 hh: 00 min	153	48,1	52,8	8,6	START 32, MAX 39	
23/06/2014 ; 10:54	17	06 hh: 30 min	00 hh: 00 min	584	45,7	57,7	33,7	START 36, MAX 41	17



Certificato numero 15152  
ISO 9001, ISO 14001



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