



Energy Saving



**LOW CHARGE FACTOR
SAVE ENERGY**



**SUPERB BATTERY
CARE**

ENERGYPULSE

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



ENERGOPULSE 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

ENERGOPULSE^{air} PREMIUM

With pump module for electrolyte mixing

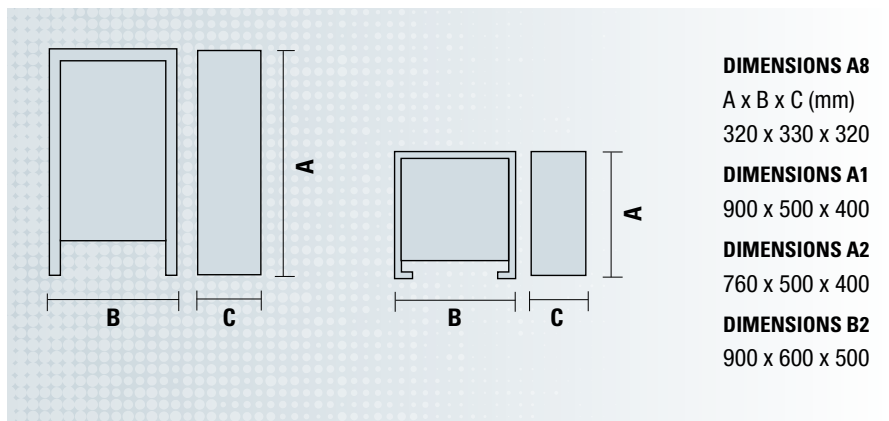
Energy saving and smooth opportunity charging

Reduced charge time (0,75h)



nuovaElettra

ENERGY PULSE Type	Battery Voltage (V)	Nominal Current (A)			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



Operator Paolo Rossi				Date 20/11/2014			
Type Model Serial number				48/100 ENERGYPULSE PREMIUM 14009040			
Cycles counter				199			
Hour counter				1523 hh : 26 min			
Ah counter				110761			
kWh counter				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 _{max}
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 _{min}
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 _{max}
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

