

S.P.E. *ELETTRONICA*
INDUSTRIALE

GREEN
SERIES



GREEN IS
MORE THAN
A COLOR

GREEN SERIES MODULAR SYSTEM

Modular three-phase battery chargers
up to 6 modules
High frequency switching technology
Scalable & flexible
High efficiency technology for optimal
battery thermal performances
Programmable via front panel or USB type A/B port
Suitable for Lead-Acid, Sealed and Gel Traction
batteries
CAN/CAN-open BUS communication for
Lithium batteries
High efficiency over 90%
Various configurations available
Multi voltage/ multi current configurable modules
Easy to service and repair
Modular fail-proof design - module failure does not
interrupt charging process
Customizable charging curves through software
Integrated data logger
HF View software included



- Available charger modules:
- A: OUTPUT: 24V-36V-48V selectable; max 50A
INPUT: 200/208-240/400/480 Vac
 - B: OUTPUT: 72V- 80V selectable; max 33A
INPUT: 200/208-240/400/480 Vac
 - C: OUTPUT: 96V; max 25A
INPUT: 400/480 Vac

NUMBER OF MODULES (max programmable current)							
		1	2	3	4	5	6
24 V	A	50 A	100 A	150 A	200 A	250 A	300 A
36 V		50 A	100 A	150 A	200 A	250 A	300 A
48 V		50 A	100 A	150 A	200 A	250 A	300 A
72 V	B	33 A	66 A	100 A	130 A	160 A	200 A
80 V		33 A	66 A	100 A	130 A	160 A	200 A
96 V	C	25 A	50 A	75 A	100 A	125 A	150 A

NOTE: maximum current per number of modules. Lower current configuration available

 Green6



 Green8



 GreenX





GREEN6

Main features:

Modular system (3 configurable modules)

Power up to 8 kW, up to 150A @ 48V,

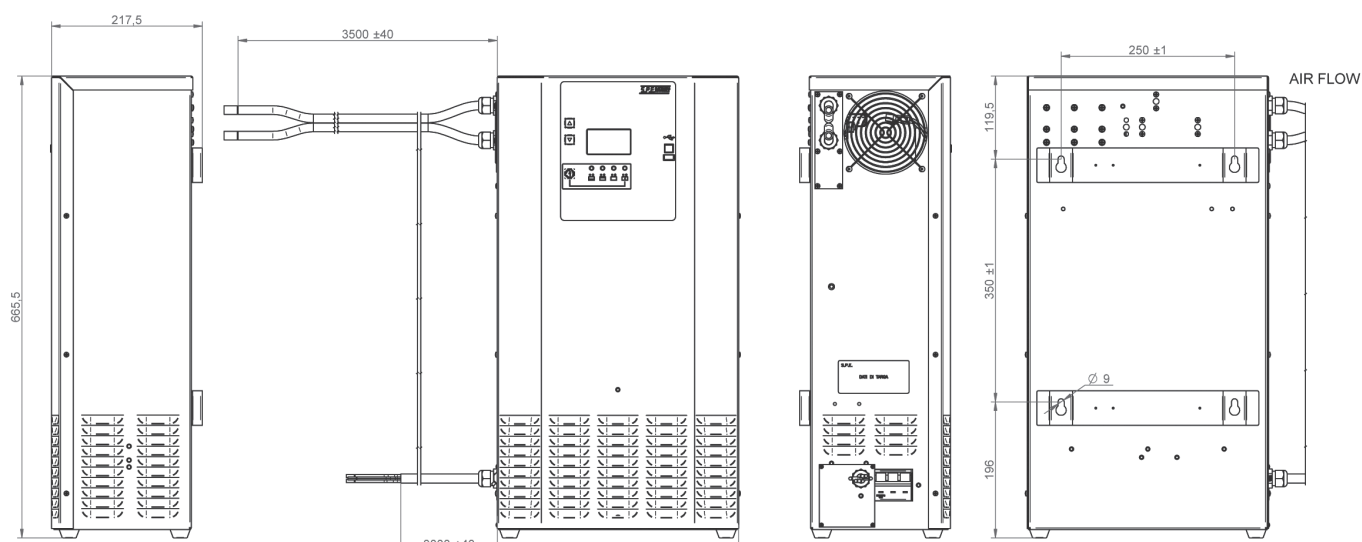
up to 100A @ 80V, up to 75A @ 96V

Programmable via USB type A/B port or via display

Graphical display

APPLICATIONS





DIMENSIONS (LxWxH): 367x677x223 mm - 14.45x26.65x8.78 in.

WEIGHT: 35 Kg - 77.16 lbs

PROTECTION GRADE: IP20

INPUT VOLTAGE: 200/208-240/400/480 Vac

Battery Voltage	IUIa Wet 8h Range (C5)	IUIa Wet 12h Range (C5)	IUIa Gel PzV 10-14h Range (C5)	Charging Current	Model
24V	280÷340 Ah	450÷550 Ah	350÷420 Ah	50A	24-50
	340÷410 Ah	540÷660 Ah	420÷510 Ah	60A	24-60
	390÷480 Ah	630÷770 Ah	480÷590 Ah	70A	24-70
	450÷550 Ah	720÷880 Ah	550÷680 Ah	80A	24-80
	560÷690 Ah	900÷1100 Ah	690÷850 Ah	100A	24-100
	680÷830 Ah	1080÷1320 Ah	830÷1020 Ah	120A	24-120
	840÷1030 Ah	1350÷1650 Ah	1040÷1270 Ah	150A	24-150
36V	280÷340 Ah	450÷550 Ah	350÷420 Ah	50A	36-50
	340÷410 Ah	540÷660 Ah	420÷510 Ah	60A	36-60
	390÷480 Ah	630÷770 Ah	480÷590 Ah	70A	36-70
	450÷550 Ah	720÷880 Ah	550÷680 Ah	80A	36-80
	560÷690 Ah	900÷1100 Ah	690÷850 Ah	100A	36-100
	680÷830 Ah	1080÷1320 Ah	830÷1020 Ah	120A	36-120
	840÷1030 Ah	1350÷1650 Ah	1040÷1270 Ah	150A	36-150
48V	280÷340 Ah	450÷550 Ah	350÷420 Ah	50A	48-50
	340÷410 Ah	540÷660 Ah	420÷510 Ah	60A	48-60
	390÷480 Ah	630÷770 Ah	480÷590 Ah	70A	48-70
	450÷550 Ah	720÷880 Ah	550÷680 Ah	80A	48-80
	560÷690 Ah	900÷1100 Ah	690÷850 Ah	100A	48-100
	680÷830 Ah	1080÷1320 Ah	830÷1020 Ah	120A	48-120
	730÷890 Ah	1170÷1430 Ah	900÷1100 Ah	130A	48-130
72V	840÷1030 Ah	1350÷1650 Ah	1040÷1270 Ah	150A	48-150
	170÷210 Ah	270÷330 Ah	210÷255 Ah	30A	72-30
	230÷280 Ah	360÷440 Ah	275÷340 Ah	40A	72-40
	280÷340 Ah	450÷550 Ah	350÷420 Ah	50A	72-50
	340÷410 Ah	540÷660 Ah	420÷510 Ah	60A	72-60
	450÷550 Ah	720÷880 Ah	550÷680 Ah	80A	72-80
	560÷690 Ah	900÷1100 Ah	690÷850 Ah	100A	72-100
80V	170÷210 Ah	270÷330 Ah	210÷255 Ah	30A	80-30
	230÷280 Ah	360÷440 Ah	275÷340 Ah	40A	80-40
	280÷340 Ah	450÷550 Ah	350÷420 Ah	50A	80-50
	340÷410 Ah	540÷660 Ah	420÷510 Ah	60A	80-60
	450÷550 Ah	720÷880 Ah	550÷680 Ah	80A	80-80
	560÷690 Ah	900÷1100 Ah	690÷850 Ah	100A	80-100
	110÷140 Ah	180÷220 Ah	140÷170 Ah	20A	96-20
96V	140÷170 Ah	230÷280 Ah	170÷210 Ah	25A	96-25
	170÷210 Ah	270÷330 Ah	210÷250 Ah	30A	96-30
	230÷280 Ah	360÷440 Ah	280÷340 Ah	40A	96-40
	280÷340 Ah	450÷550 Ah	350÷420 Ah	50A	96-50
	340÷410 Ah	540÷660 Ah	420÷510 Ah	60A	96-60
	390÷480 Ah	630÷770 Ah	480÷590 Ah	70A	96-70
	420÷520 Ah	680÷830 Ah	520÷630 Ah	75A	96-75



GREEN8

Main features:

Modular system (4 configurable modules)

Power up to 10.5 kW, up to 200A @ 48V,

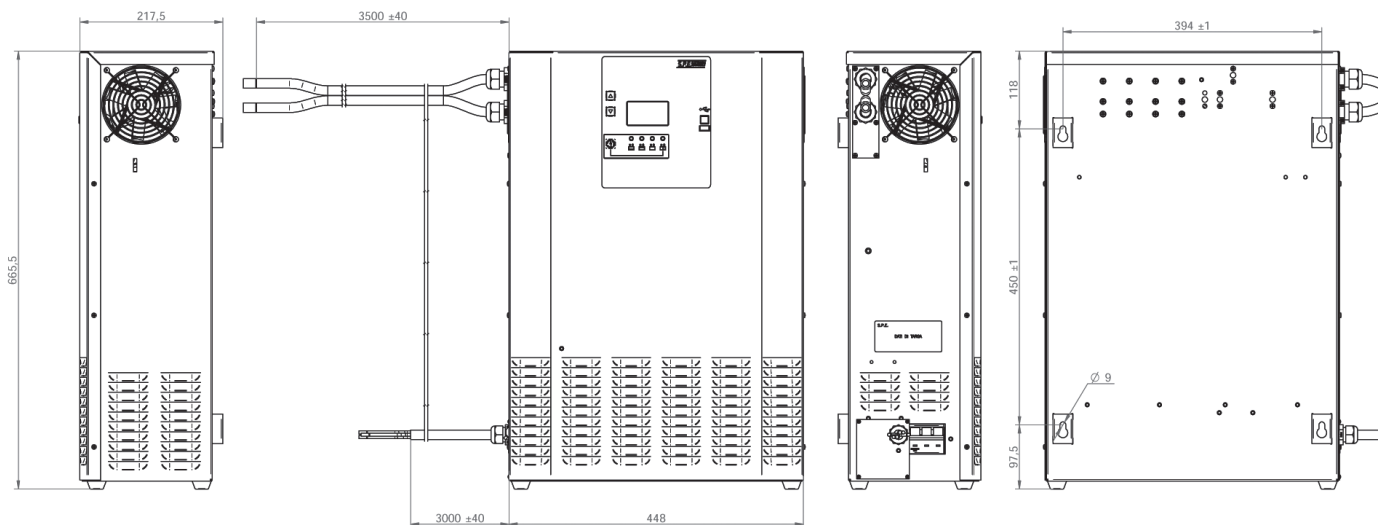
up to 130A @ 80V, up to 100A @ 96V

Programmable via USB type A/B port or via display

Graphical display

APPLICATIONS





DIMENSIONS (LxWxH): 494,25x677x281 mm - 19.45x26.65x8.5 in.

WEIGHT: 43,35 Kg - 95.5 lbs

PROTECTION GRADE: IP20

INPUT VOLTAGE: 200/208-240/400/480 Vac

Battery Voltage	IUla Wet 8h Range (C5)	IUla Wet 12h Range (C5)	IUla Gel PzV 10-14h Range (C5)	Charging Current	Model
24V	900 ÷ 1100 Ah	1440 ÷ 1760 Ah	1110 ÷ 1350 Ah	160A	24-160
	1010 ÷ 1240 Ah	1620 ÷ 1980 Ah	1250 ÷ 1520 Ah	180A	24-180
	1130 ÷ 1380 Ah	1800 ÷ 2200 Ah	1380 ÷ 1690 Ah	200A	24-200
36V	900 ÷ 1100 Ah	1440 ÷ 1760 Ah	1110 ÷ 1350 Ah	160A	36-160
	1010 ÷ 1240 Ah	1620 ÷ 1980 Ah	1250 ÷ 1520 Ah	180A	36-180
	1130 ÷ 1380 Ah	1800 ÷ 2200 Ah	1380 ÷ 1690 Ah	200A	36-200
48V	900 ÷ 1100 Ah	1440 ÷ 1760 Ah	1110 ÷ 1350 Ah	160A	48-160
	1010 ÷ 1240 Ah	1620 ÷ 1980 Ah	1250 ÷ 1520 Ah	180A	48-180
	1130 ÷ 1380 Ah	1800 ÷ 2200 Ah	1380 ÷ 1690 Ah	200A	48-200
72V	620 ÷ 760 Ah	990 ÷ 1210 Ah	760 ÷ 930 Ah	110A	72-110
	680 ÷ 830 Ah	1080 ÷ 1320 Ah	830 ÷ 1020 Ah	120A	72-120
	730 ÷ 890 Ah	1170 ÷ 1430 Ah	900 ÷ 1100 Ah	130A	72-130
80V	620 ÷ 760 Ah	990 ÷ 1210 Ah	760 ÷ 930 Ah	110A	80-110
	680 ÷ 830 Ah	1080 ÷ 1320 Ah	830 ÷ 1020 Ah	120A	80-120
	730 ÷ 890 Ah	1170 ÷ 1430 Ah	900 ÷ 1100 Ah	130A	80-130
96V	450 ÷ 550 Ah	720 ÷ 880 Ah	550 ÷ 680 Ah	80A	96-80
	560 ÷ 690 Ah	900 ÷ 1100 Ah	690 ÷ 850 Ah	100A	96-100



GREENX

Main features:

Modular system (5-6 configurable modules)

Power up to 16 kW, 300A @ 48 V,

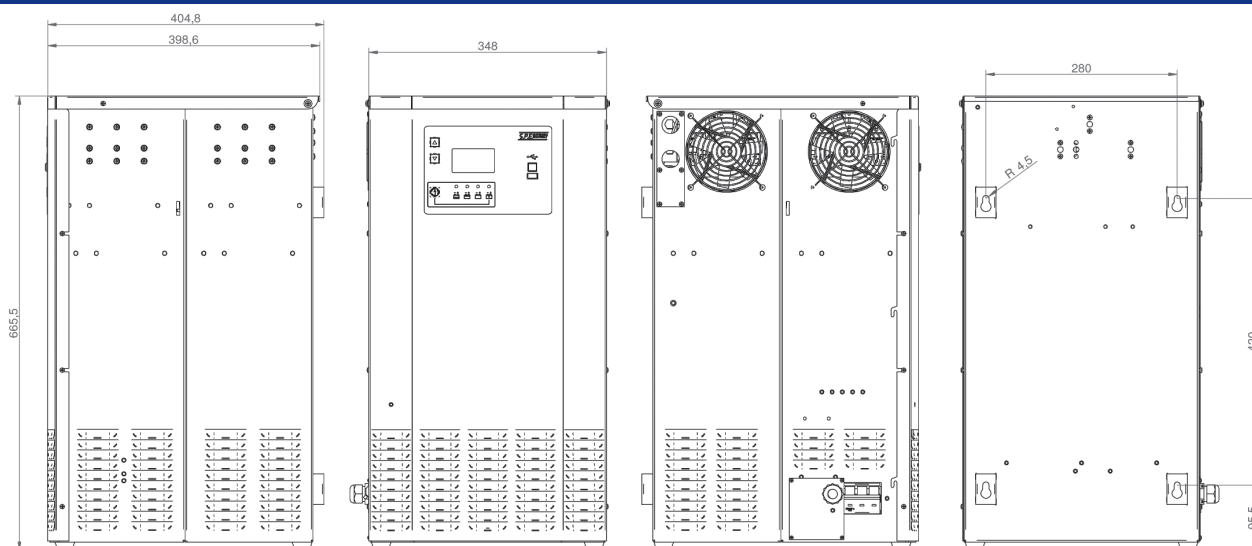
up to 200A @ 80 V, up to 150A @ 96V

Programmable via USB type A/B port or via display

Graphical display

APPLICATIONS





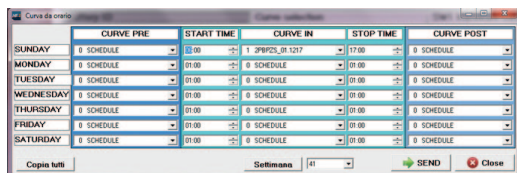
DIMENSIONS (LxWxH): 348x665,50x398,60 mm – 13.70x26.20x15.70 in.

WEIGHT: 61 Kg – 134.48 lbs

PROTECTION GRADE: IP20

ONLY INPUT VOLTAGE: 400/480Vac

Battery Voltage	IUla Wet 8h Range (C5)	IUla Wet 12h Range (C5)	IUla Gel PzV 10-14h Range (C5)	Charging Current	Model
24V	1240 ÷ 1510 Ah	1980 ÷ 2420 Ah	1520 ÷ 1860 Ah	220A	24-220
	1410 ÷ 1720 Ah	2250 ÷ 2750 Ah	1730 ÷ 2120 Ah	250A	24-250
	1580 ÷ 1930 Ah	2520 ÷ 3080 Ah	1940 ÷ 2370 Ah	280A	24-280
	1690 ÷ 2060 Ah	2700 ÷ 3300 Ah	2080 ÷ 2540 Ah	300A	24-300
36V	1240 ÷ 1510 Ah	1980 ÷ 2420 Ah	1520 ÷ 1860 Ah	220A	36-220
	1410 ÷ 1720 Ah	2250 ÷ 2750 Ah	1730 ÷ 2120 Ah	250A	36-250
	1580 ÷ 1930 Ah	2520 ÷ 3080 Ah	1940 ÷ 2370 Ah	280A	36-280
	1690 ÷ 2060 Ah	2700 ÷ 3300 Ah	2080 ÷ 2540 Ah	300A	36-300
48V	1240 ÷ 1510 Ah	1980 ÷ 2420 Ah	1520 ÷ 1860 Ah	220A	48-220
	1410 ÷ 1720 Ah	2250 ÷ 2750 Ah	1730 ÷ 2120 Ah	250A	48-250
	1580 ÷ 1930 Ah	2520 ÷ 3080 Ah	1940 ÷ 2370 Ah	280A	48-280
	1690 ÷ 2060 Ah	2700 ÷ 3300 Ah	2080 ÷ 2540 Ah	300A	48-300
72V	840 ÷ 1030 Ah	1350 ÷ 1650 Ah	1040 ÷ 1270 Ah	150A	72-150
	900 ÷ 1100 Ah	1440 ÷ 1760 Ah	1110 ÷ 1350 Ah	160A	72-160
	1010 ÷ 1240 Ah	1620 ÷ 1980 Ah	1250 ÷ 1520 Ah	180A	72-180
	1130 ÷ 1380 Ah	1800 ÷ 2200 Ah	1380 ÷ 1690 Ah	200A	72-200
80V	840 ÷ 1030 Ah	1350 ÷ 1650 Ah	1040 ÷ 1270 Ah	150A	80-150
	900 ÷ 1100 Ah	1440 ÷ 1760 Ah	1110 ÷ 1350 Ah	160A	80-160
	1010 ÷ 1240 Ah	1620 ÷ 1980 Ah	1250 ÷ 1520 Ah	180A	80-180
	1130 ÷ 1380 Ah	1800 ÷ 2200 Ah	1380 ÷ 1690 Ah	200A	80-200
96V	700 ÷ 860 Ah	1130 ÷ 1380 Ah	870 ÷ 1060 Ah	125A	96-125
	840 ÷ 1030 Ah	1350 ÷ 1650 Ah	1040 ÷ 1270 Ah	150A	96-150



REAL TIME CALENDAR

Configures charging profile depending on time/date



AIR PUMP:

Recharges batteries with air circulation option
(available only for GREEN6)



EXTERNAL CHARGER LAMP

Bright external lamp for easy charging status signaling



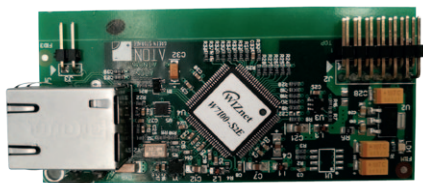
ANTISPARK

Automatic power interruption for safe plugs
disconnection (extra plug wiring requested)



NTC TEMPERATURE SENSOR

Temperature monitor for optimal charging process



ETHERNET INTERFACE

Remote charger monitor via web server



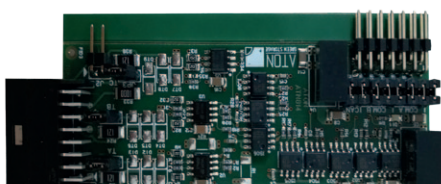
WiFi INTERFACE:

Wireless remote charger monitor via web server



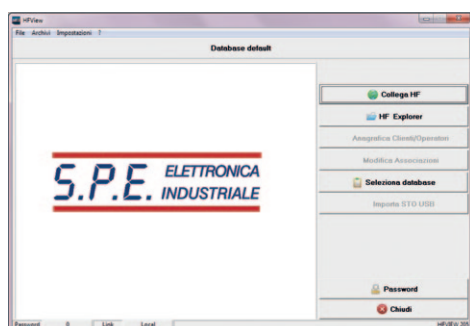
2G/3G DATA CARD

2G/3G data card for remote charger monitor via web server



DIGITAL I/O

Digital input/output signals for charger interface to complex systems



HFVIEW SOFTWARE

Through HFView software, connecting PC and charger with USB cable, allows access to several options:

- Monitor and download charging cycles
- Modify charger configuration of voltage, current profile
- Enable charger options
- Design/modify charging profiles

NOTES

[illegible]



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