

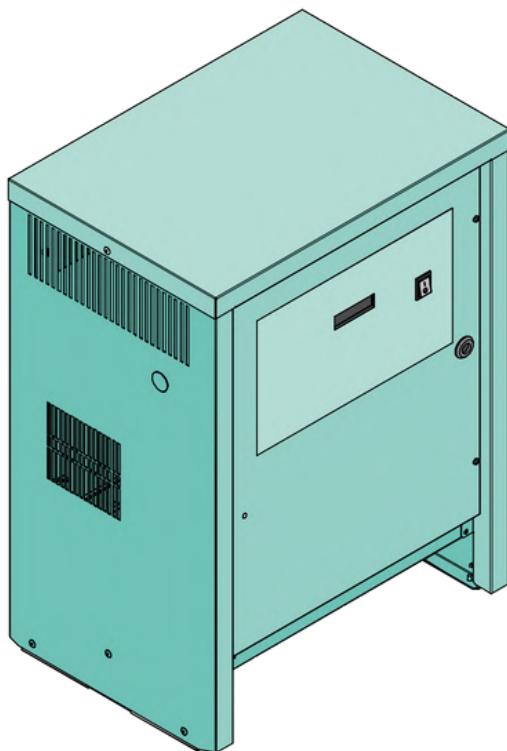
FRC Series

Ferro
Resonant
Chargers

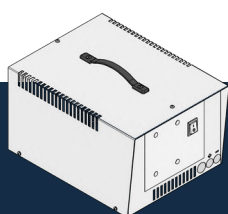
A0

Technical Features

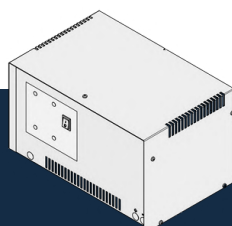
- Full automatic operation
- Robust and reliable construction
- Standard Wa-curve,
WoWa-curve available



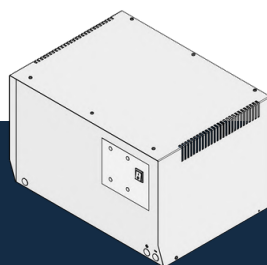
GENERIC CODE	BATTERY VOLTAGE [V]	CHARGING CURRENT [A]	MAX POWER [W]
FRC-024-060-A0	24	60	1.4
FRC-024-080-A0	24	80	1.9
FRC-024-100-A0	24	100	2.4
FRC-024-120-A0	24	120	2.9
FRC-024-140-A0	24	140	3.4
FRC-036-060-A0	36	60	2.2
FRC-036-080-A0	36	80	2.9
FRC-036-100-A0	36	100	3.6
FRC-036-120-A0	36	120	4.3
FRC-036-140-A0	36	140	5
FRC-048-050-A0	48	50	2.4
FRC-048-060-A0	48	60	2.9
FRC-048-080-A0	48	80	3.8
FRC-048-100-A0	48	100	4.8
FRC-048-120-A0	48	120	5.8
FRC-048-140-A0	48	140	6.7
FRC-072-060-A0	72	60	4.3
FRC-072-080-A0	72	80	5.8
FRC-072-100-A0	72	100	7.2
FRC-080-060-A0	80	60	4.8
FRC-080-080-A0	80	80	6.4
FRC-080-100-A0	80	100	8
FRC-080-120-A0	80	120	9.6



S0



S1



S2



A0



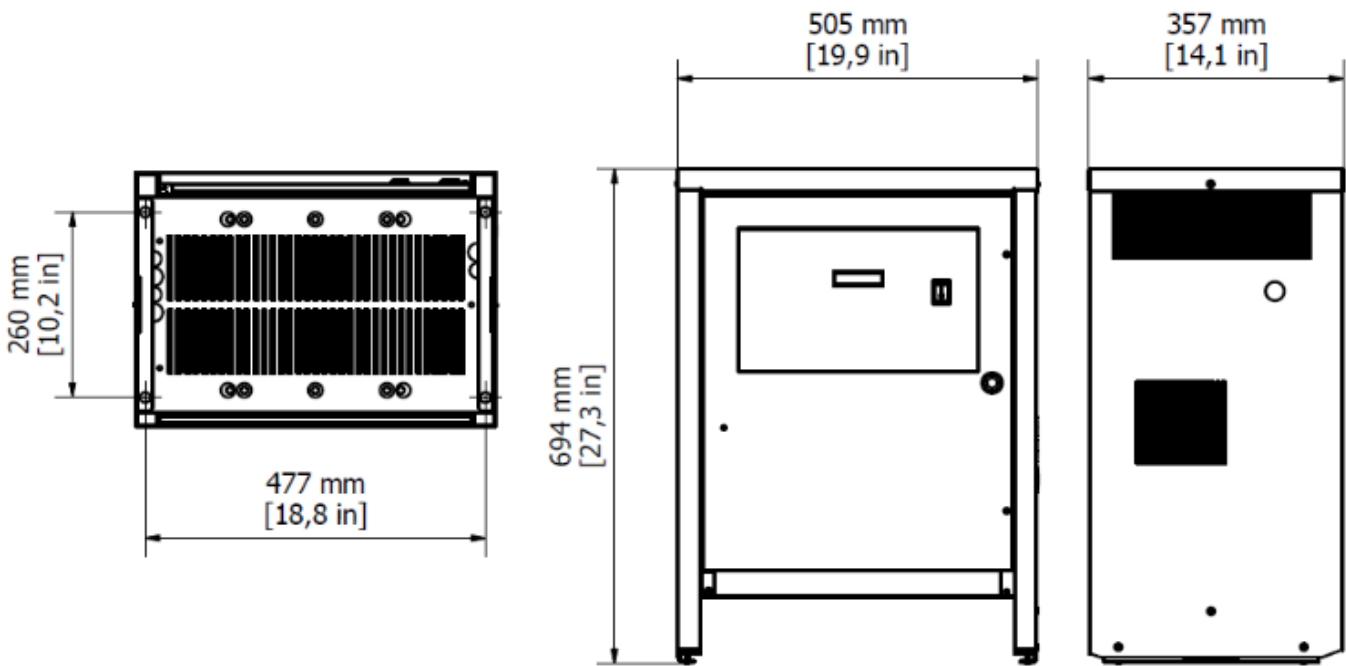
A1

STANDARDS	
Quality	ISO 9001:2008
Marking	CE
EMC	IEC EN 61000-6-2, IEC EN 61000-6-4
Safety	IEC EN 50178, IEC EN 062040-1
Test and Performance	IEC EN 62040-3
North American Standards	UL 1564, CSA 22.2 107.2-01

MECHANICAL	
Cooling	Air Cooled
IP level	IP21 (Standard)
Ambient Temperature	-10°C to +50°C
Storage Temperature	-20°C to +70°C
Humidity	<75%
Altitude (m)	>2000m according to EN62040-3

SPECIFICATIONS	
Line Voltage (VAC) ±10%	Three Phase: 400,480
Frequency (Hz)	50/60 Hz ±5%
Power Factor	>80%
Efficiency	>85%

CHARGING APPLICATION SCENARIO
Sealed Battery: Flooded



HOUSING DIMENSION		
L (front) mm	W (side) mm	H mm
505	357	694



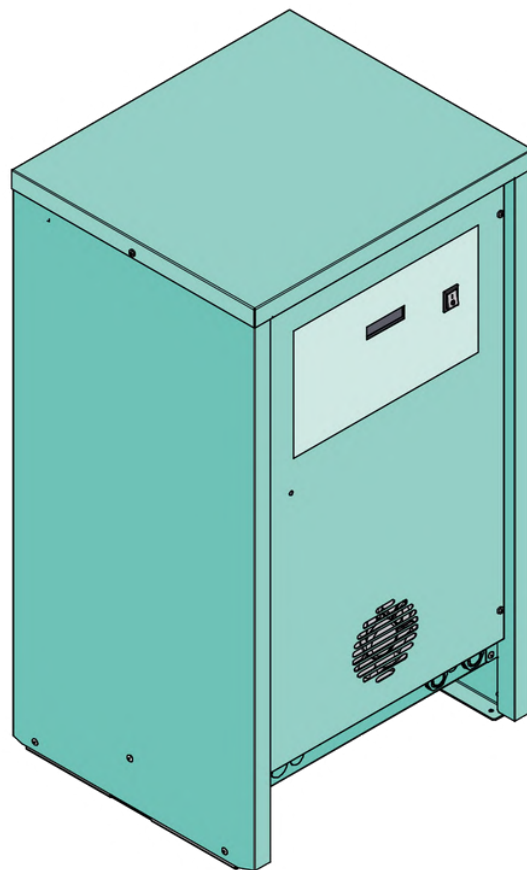
FRC Series

Ferro
Resonant
Chargers

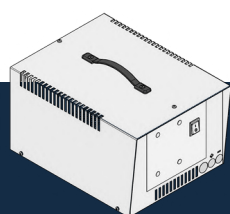
A1

Technical Features

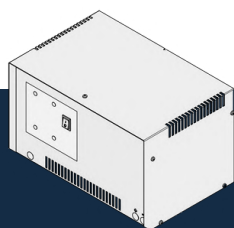
- Full automatic operation
- Robust and reliable construction
- Standard Wa-curve, WoWa-curve available



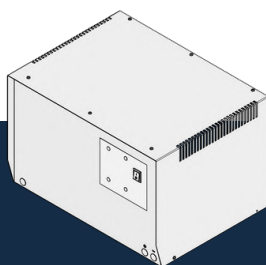
GENERIC CODE	BATTERY VOLTAGE [V]	CHARGING CURRENT [A]	MAX POWER [W]
FRC-024-160-A1	24	160	3.8
FRC-024-180-A1	24	180	4.3
FRC-036-160-A1	36	160	5.7
FRC-048-160-A1	48	160	7.7
FRC-048-180-A1	48	180	8.6
FRC-048-200-A1	48	200	9.6
FRC-072-120-A1	72	120	8.6
FRC-080-140-A1	80	140	11
FRC-080-160-A1	80	160	13
FRC-096-100-A1	96	100	9.6
FRC-096-120-A1	96	120	12



S0



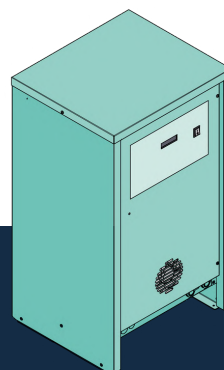
S1



S2



A0



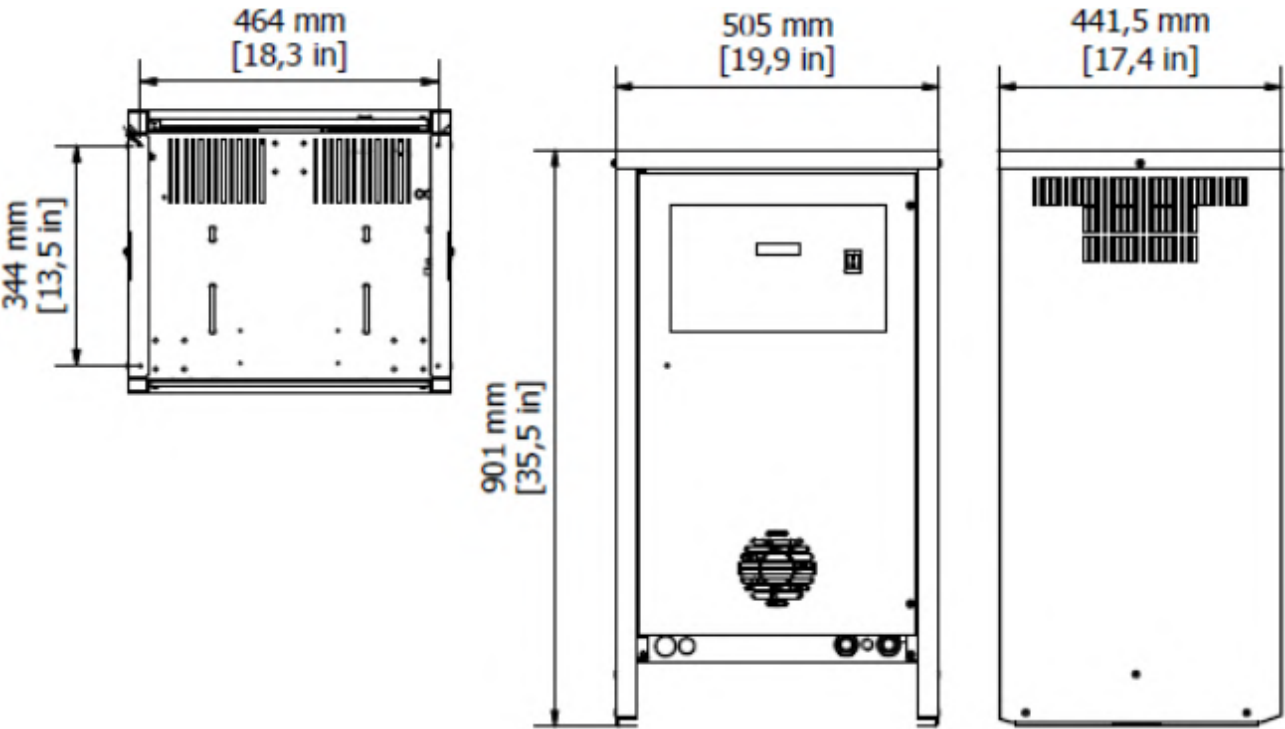
A1

STANDARDS	
Quality	ISO 9001:2008
Marking	CE
EMC	IEC EN 61000-6-2, IEC EN 61000-6-4
Safety	IEC EN 50178, IEC EN 062040-1
Test and Performance	IEC EN 62040-3
North American Standards	UL 1564, CSA 22.2 107.2-01

MECHANICAL	
Cooling	Air Cooled
IP level	IP21 (Standard)
Ambient Temperature	-10°C to +50°C
Storage Temperature	-20°C to +70°C
Humidity	<75%
Altitude (m)	>2000m according to EN62040-3

SPECIFICATIONS	
Line Voltage (VAC) ±10%	Three Phase: 400,480
Frequency (Hz)	50/60 Hz ±5%
Power Factor	>80%
Efficiency	>85%

CHARGING APPLICATION SCENARIO
Sealed Battery: Flooded



HOUSING DIMENSION		
L (front) mm	W (side) mm	H mm
505	442	901



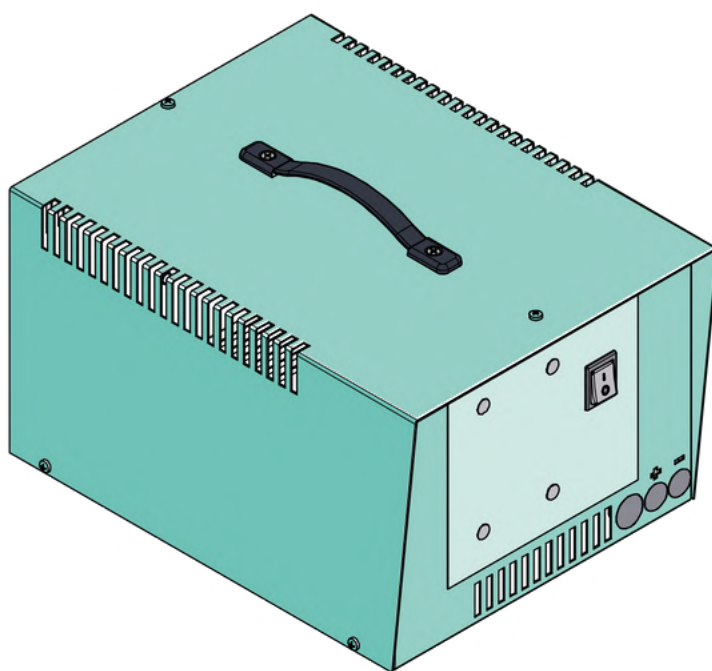
FRC Series

Ferro
Resonant
Chargers

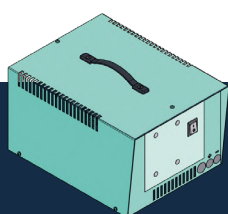
S0

Technical Features

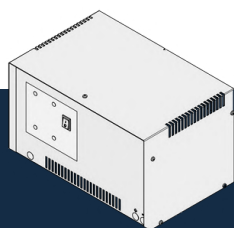
- Full automatic operation
- Robust and reliable construction
- Standard Wa-curve, WoWa-curve available



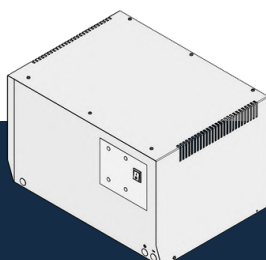
GENERIC CODE	BATTERY VOLTAGE [V]	CHARGING CURRENT [A]	MAX POWER [W]
FRC-012-015-S0	12	15	180
FRC-012-020-S0	12	20	240
FRC-012-025-S0	12	25	300
FRC-012-030-S0	12	30	360
FRC-024-015-S0	24	15	360
FRC-024-020-S0	24	20	480
FRC-024-025-S0	24	25	600
FRC-024-030-S0	24	30	720
FRC-024-040-S0	24	40	960



S0



S1



S2



A0



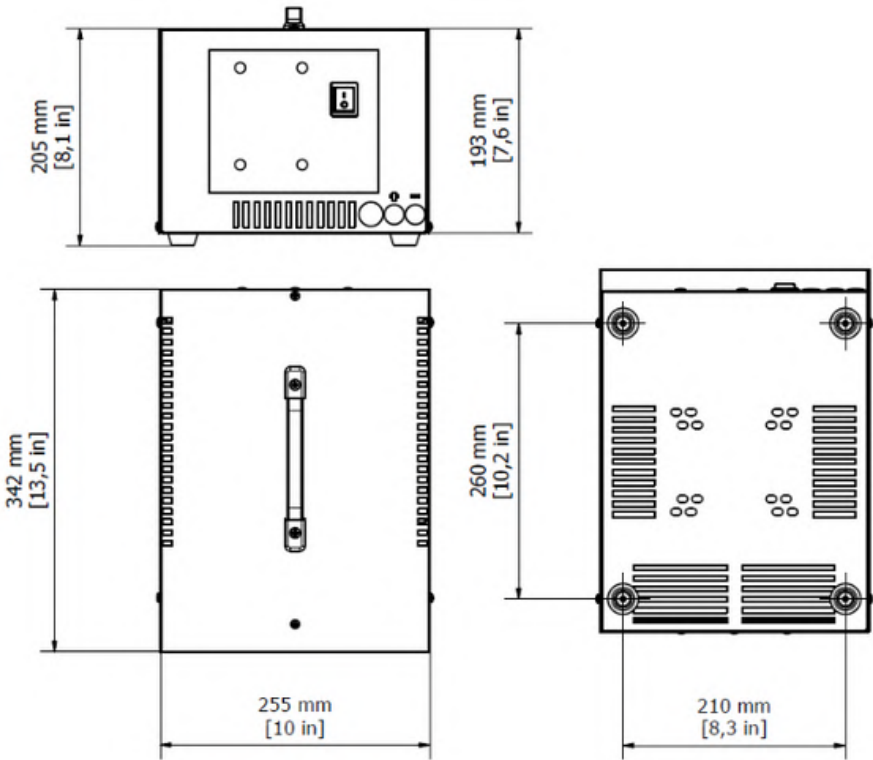
A1

STANDARDS	
Quality	ISO 9001:2008
Marking	CE
EMC	IEC EN 61000-6-2, IEC EN 61000-6-4
Safety	IEC EN 50178, IEC EN 062040-1
Test and Performance	IEC EN 62040-3
North American Standards	UL 1564, CSA 22.2 107.2-01

MECHANICAL	
Cooling	Air Cooled
IP level	IP21 (Standard)
Ambient Temperature	-10°C to +50°C
Storage Temperature	-20°C to +70°C
Humidity	<75%
Altitude (m)	>2000m according to EN62040-3

SPECIFICATIONS	
Line Voltage (VAC) ±10%	Single Phase: 120, 230
Frequency (Hz)	50/60 Hz ±5%
Power Factor	>90%
Efficiency	>90%

CHARGING APPLICATION SCENARIO
Sealed Battery: Flooded



HOUSING DIMENSION		
L (front) mm	W (side) mm	H mm
255	342	205



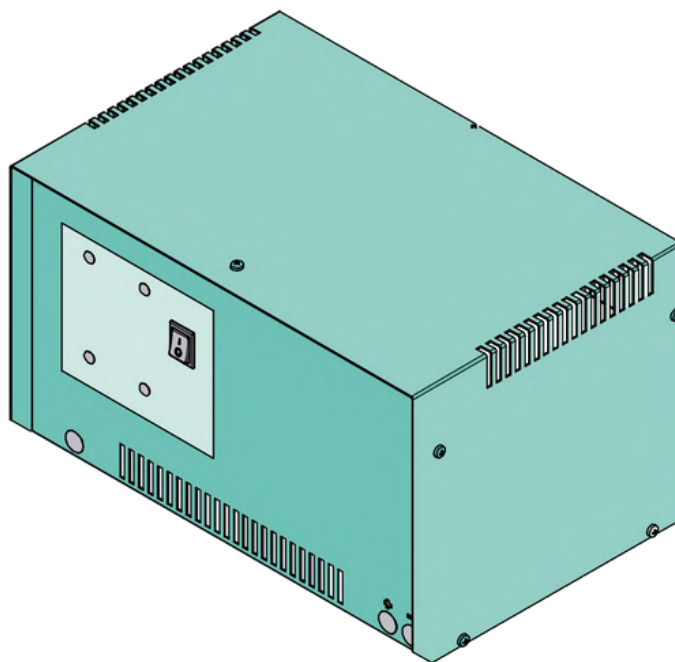
FRC Series

Ferro
Resonant
Chargers

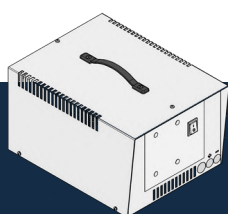
S1

Technical Features

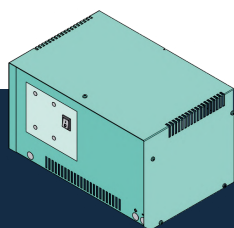
- Full automatic operation
- Robust and reliable construction
- Standard Wa-curve, WoWa-curve available



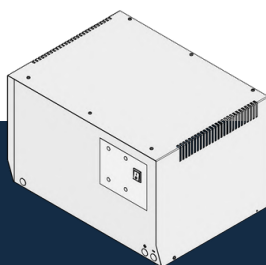
GENERIC CODE	BATTERY VOLTAGE [V]	CHARGING CURRENT [A]	MAX POWER [W]
FRC-012-050-S1	12	50	600
FRC-012-060-S1	12	60	720
FRC-024-050-S1	24	50	1200
FRC-024-060-S1	24	60	1440
FRC-036-030-S1	36	30	1080
FRC-036-040-S1	36	40	1440
FRC-036-050-S1	36	50	1800
FRC-048-040-S1	48	40	1920



S0



S1



S2



A0



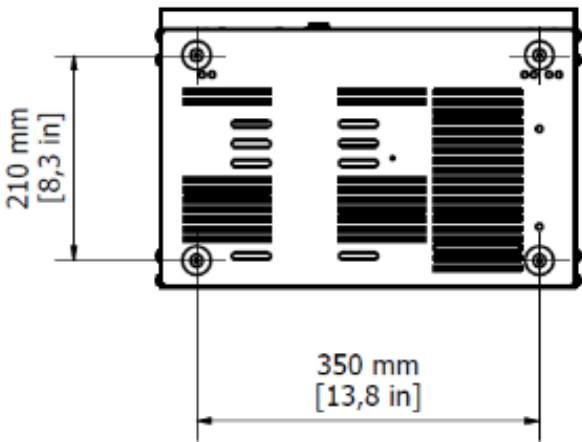
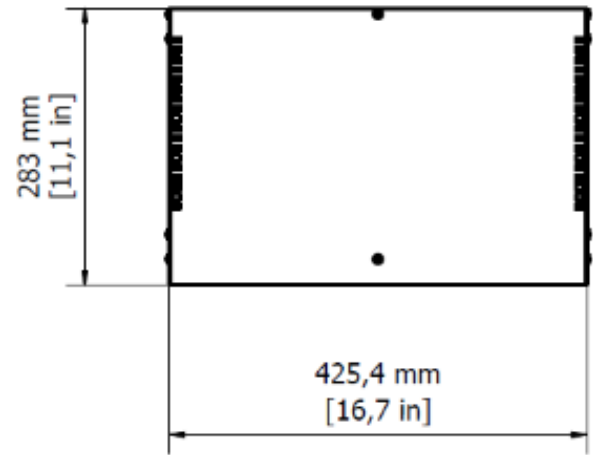
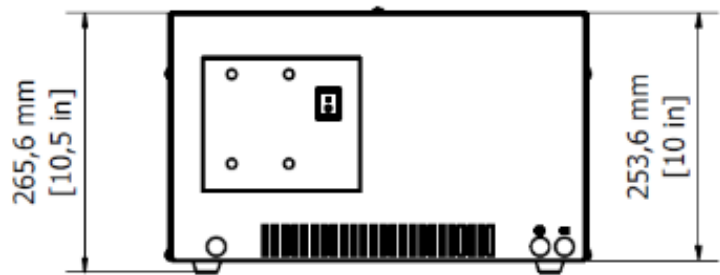
A1

STANDARDS	
Quality	ISO 9001:2008
Marking	CE
EMC	IEC EN 61000-6-2, IEC EN 61000-6-4
Safety	IEC EN 50178, IEC EN 062040-1
Test and Performance	IEC EN 62040-3
North American Standards	UL 1564, CSA 22.2 107.2-01

MECHANICAL	
Cooling	Air Cooled
IP level	IP21 (Standard)
Ambient Temperature	-10°C to +50°C
Storage Temperature	-20°C to +70°C
Humidity	<75%
Altitude (m)	>2000m according to EN62040-3

SPECIFICATIONS	
Line Voltage (VAC) ±10%	Single Phase: 120, 230
Frequency (Hz)	50/60 Hz ±5%
Power Factor	>90%
Efficiency	>90%

CHARGING APPLICATION SCENARIO
Sealed Battery: Flooded



HOUSING DIMENSION		
L (front) mm	W (side) mm	H mm
425	283	266



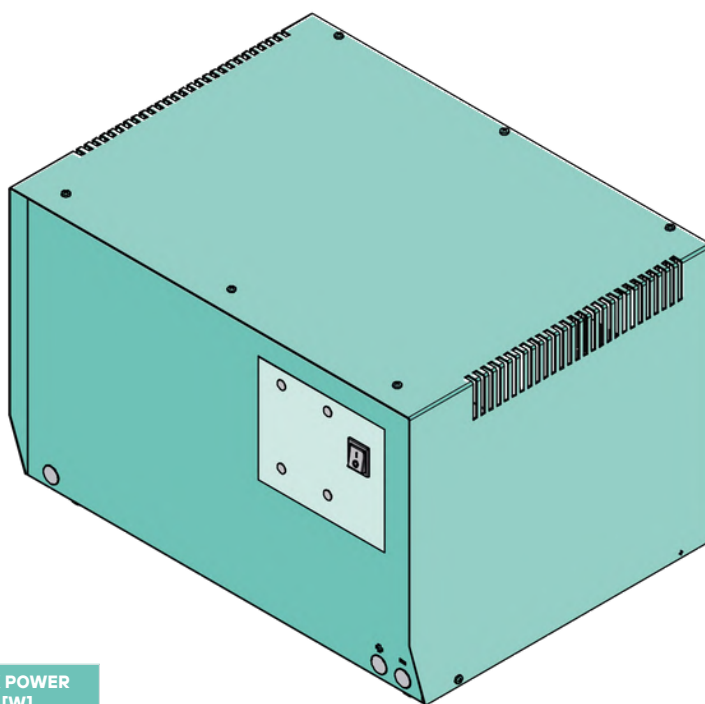
FRC Series

Ferro
Resonant
Chargers

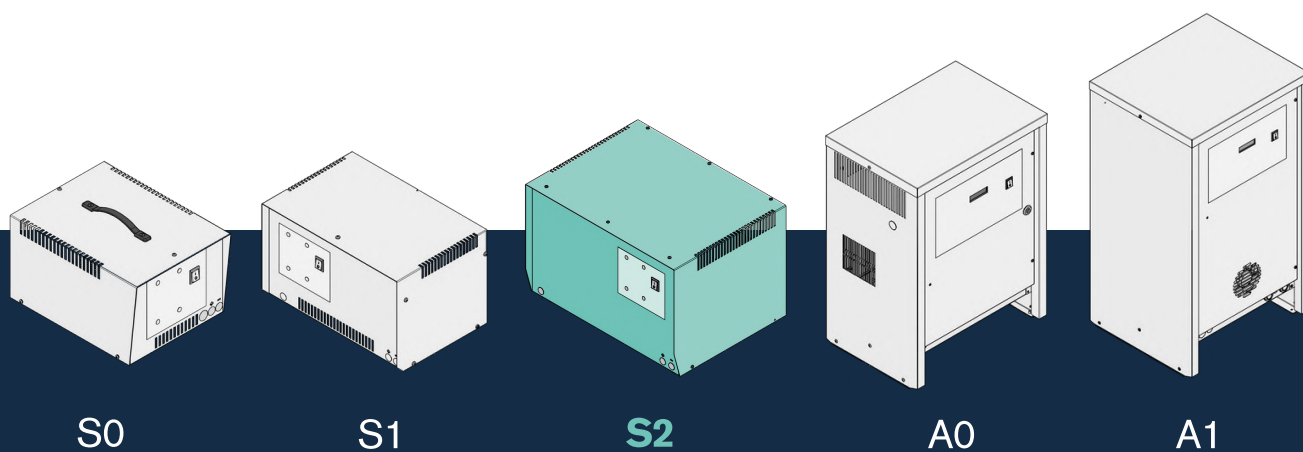
S2

Technical Features

- Full automatic operation
- Robust and reliable construction
- Standard Wa-curve, WoWa-curve available



GENERIC CODE	BATTERY VOLTAGE [V]	CHARGING CURRENT [A]	MAX POWER [W]
FRC-024-080-S2	24	80	1.9
FRC-024-100-S2	24	100	2.4
FRC-036-060-S2	36	60	2.2
FRC-036-080-S2	36	80	2.9
FRC-048-050-S2	48	50	2.4
FRC-048-060-S2	48	60	2.9

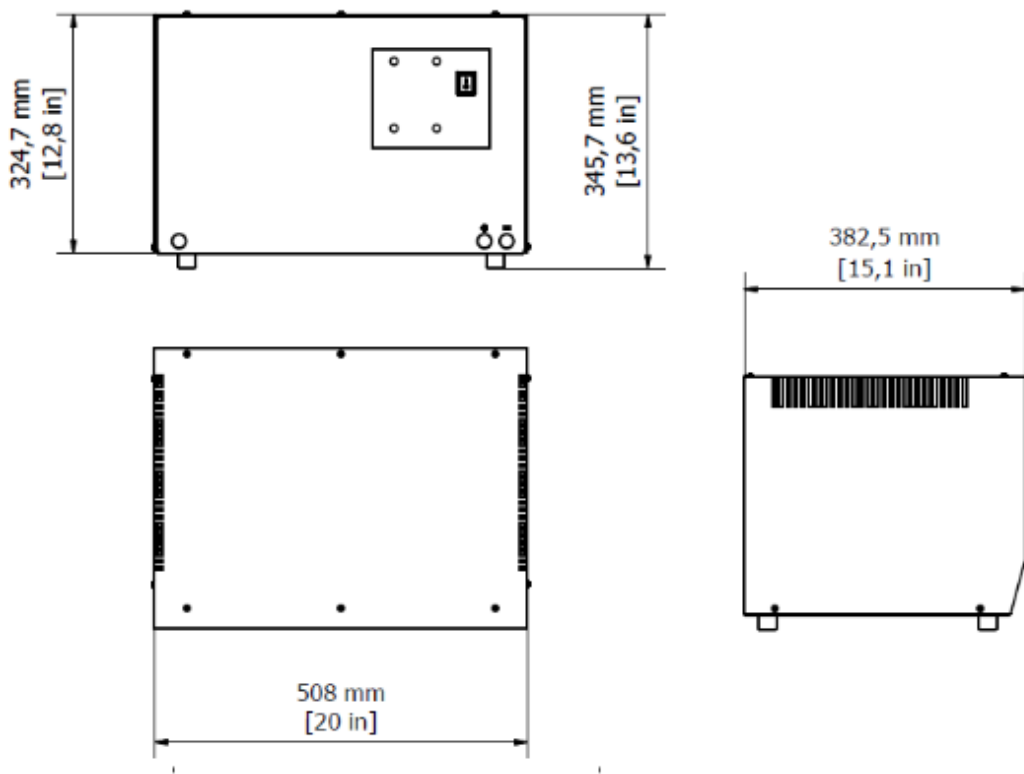


STANDARDS	
Quality	ISO 9001:2008
Marking	CE
EMC	IEC EN 61000-6-2, IEC EN 61000-6-4
Safety	IEC EN 50178, IEC EN 062040-1
Test and Performance	IEC EN 62040-3
North American Standards	UL 1564, CSA 22.2 107.2-01

MECHANICAL	
Cooling	Air Cooled
IP level	IP21 (Standard)
Ambient Temperature	-10°C to +50°C
Storage Temperature	-20°C to +70°C
Humidity	<75%
Altitude (m)	>2000m according to EN62040-3

SPECIFICATIONS	
Line Voltage (VAC) ±10%	Single Phase: 120, 230
Frequency (Hz)	50/60 Hz ±5%
Power Factor	>90%
Efficiency	>90%

CHARGING APPLICATION SCENARIO
Sealed Battery: Flooded



HOUSING DIMENSION		
L (front) mm	W (side) mm	H mm
508	383	346

