



























■ AC Power Cord Type

| AC Power Cord | 2/3 pin Euro | 2/3 pin USA | 2/3 Pin China | 2/3 pin UK | 2/3 pin AU | 2/3 pin JP | 2/3 pin KR | 2/3 pin IN | 3 pin South Africa | IEC320- C13/C5 |
|------------------|-----------------|----------------|------------------|---------------|---------------|---------------|---------------|---------------|--------------------------|-------------------|
| Yes/No | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes |

■ KRECO Part List

| Туре | Basic Model | With OLED display |
|-----------|-------------|-------------------|
| KRECO P/N | S120 | S120M |

■ Features

- Charger for lead-acid batteries (Flooded, Gel, and AGM) and Li-lon batteries (lithium iron, lithium manganese and lithium nickel cobalt manganese) (Note. 1)
- Universal AC voltage range full range 90 ~ 264VAC
- Multi-stages smart charging characteristic
- Protections: Short circuit /Overload /Over voltage /Low voltage /Over temperature /Over current /Reverse polarity /Timing /Fully charged shut down /No leaking current drain out of the battery
- High efficiency, Maximum efficiency can be up to 90%
- Class I power, portable type.
- Fan cooling with anti-dust mesh
- 2 color LED loading indicator
- M type with Embed MCU intelligent control, RS485 and CAN2.0B communication for option, OLED display for option, it shows voltage, current, time and SOC percent
- No spark DC plug design when the DC connector plugs into or unplugs from the battery
- No spark design when short circuit protection
- Active zero voltage battery charge input port

■ Applications

- Electric vehicles/ Electric bikes
- Cleaning machines/ Vacuums

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175W AC-DC Metal Enclosure Battery Charger

KRE-S120x series

- Drone/ Aerospace/Robot
- Agricultural equipment/Motorcycles
- Scooters/ RC boat/Electric toys
- Cars/ Buses/Electric tool
- Libraries/ Hospitals
- Fire departments/ Telecommunications
- Industry Consumer electronic devices



■ Output Specifications

(Standard):

| | Nominal DC Voltage | 12V | 24V | 36V | 48V | 60V | 72V | 84V | 96V |
|---|-------------------------------|---------------------------------------|------------|--------------------|--------------------------------------|----------------------|---------|----------|----------|
| Output | Float/Boost Charge Voltage | 10~17V | 25.2~29.4V | 42~43.8V | 54.6~58.8V | 67.2~73.5V | 75V~89V | 90V~110V | 111~135V |
| | Rated Current | 5A | 5A | 4A | 3A | 2A | 1.5A | 1.2A | 1A |
| | Part List (reference) | 12.6v4-5A 14.6v/4-5A 16.8v/4-5A | 29.4v/3-5A | 42v/3A 43.8v/4A | 50.4v/2-3A 54.6v/3A 58.4v/2.5A | 67.2v/2A 71.4v/2A | ® | | |
| | Rated Power | 84W | 147W | 175W | 175W | 142.8W | | | |
| CC and CV Charging current > Rated current * 10%: RED; CV Charging current <= Rated current * 10%: GREEN | | | | | | | | | |

■ Technical Specifications

| | Voltage Range | 90~264VAC | | | |
|-------------|------------------|--|--|--|--|
| | Frequency Range | 47~63HZ | | | |
| | Power Factor | 0.65 at 230VAC | | | |
| Input | Efficiency | 90% | | | |
| | AC Current | 3A/220VAC | | | |
| | Inrush Current | Cold Start < 60A | | | |
| | Leakage Current | <3.5ma/240VAC | | | |
| | Short Circuit | RED LED Fast Flashing and shut down output voltage; | | | |
| | Reverse Polarity | | | | |
| | Low Voltage | Recovers automatically after fault condition is removed. | | | |
| Protections | Over Current | | | | |
| Protections | Over Voltage | Shut down output voltage, re-power on to recover. | | | |
| | Over Load | | | | |
| | Over Temperature | 85°C±10°C(RTH2), | | | |
| | Over remperature | automatically derate charge current to half max rated current. | | | |

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175W AC-DC Metal Enclosure Battery Charger

KRE-S120x series

| | RS485, CAN2.0B | For option, customized (M type) |
|-------------|------------------|---|
| Interface | OLED Display | For option, voltage, current, charging time, SOC percent (M type) |
| | UART | Baud rate: 9600bps, 8 data bits, no parity, 1 Stop Bit |
| | Working Temp. | -30°C~+60°C |
| | Working Humidity | 20~90% TH non-condensing |
| Environment | Storage Temp. | -40°C~+85°C, |
| | Humidity | 10~95% TH |

| | Safety Standards | UL1012, EN/IEC60335, TUV EN62368,PSE J62368 KC K62368 | | | | |
|--------------|----------------------|--|--|--|--|--|
| | Withstand Voltage | I/P-O/P:1.8KVAC, I/P-FG:1.8KVAC, O/P-FG:0.5KVAC | | | | |
| | Isolation Resistance | I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC/25 °C/70% RH | | | | |
| Safety & EMC | | Compliance to EN55032 (CISPR32) Class B, EN62233, | | | | |
| | EMC Emission | EN61000-3-2,-3, EAC TP TC 020 | | | | |
| | FMO ! | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55014, | | | | |
| | EMC Immunity | light industry level, criteria A, EAC TP TC 02 | | | | |
| | Dimension(mm) | 137*90*50 (L*W*H) | | | | |
| Others | Packing | 0.8Kg; pcs/ Kgs/ CBM | | | | |

■ Pin Assignment

DC output connector (Standard):

| IEC320-C13 | ntellia | | |
|------------|---------|--|--|
| PIN NO. | OUTPUT | | |
| N | +V | | |
| L | -V | | |

DC output connector (Optional):

| AD1 | |
|---|-----|
| [housing: Anderson 1327FP(red), 1327G6FP(| |
| contacts: Anderson 261G2 (45A) or equivaler | nt] |
| Red(+V) Black(-V) | |

*Note: -V connected to AC FG

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DC output connector (Optional):

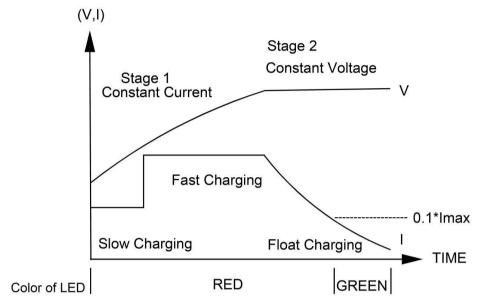
| 4pin XLR UNICABLE 89M103-4P or equivalent | | | | | |
|---|---------|--------|--|--|--|
| 3 2 | PIN NO. | OUTPUT | | | |
| 4((000))1 | 1,2 | +\/ | | | |
| | 3,4 | -V | | | |

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■ Charging Curve



*Note: This charging curve is for Li-lon battery.

■ Notes

(1) Modification for charger specification may be required for different battery specification.

Please contact battery vendor and KRECO for detail.

- (2) All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C ambient temperature.
- (3) xxx for Output voltage and yyy for output current, what you are going to order, please must specify to sales.
- (4) M for it with OLED display; V for upgrade version.
- (5) Safety model number differs from the order number, part number, and shape number as per respective OEM/ODM factories.

Disclaimer: Kreco is not responsible for any error, and reserves the right to make changes without notice.

Please visit our website at www.kreco.com.cn for the most up-to-date specifications and quotation by contact us.

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