



■ 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

| Type | Basic Model |
|-----------|-------------|
| KRECO P/N | XT8 |

■ Features

- Charger for lead-acid batteries (Flooded, Gel, and AGM) and Li-Ion 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
- 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 | 24V | 36V | 48V |
|--------|----------------------------|--|--------------------|--------------------------|
| Output | Float/Boost Charge Voltage | 25.2~29.4V | 42~43.8V | 54.6~58.8V |
| | Rated Current | 2.5A | 2A | 1.5A |
| | Part List (reference) | 29.2v/2.5A 29.4v/2.5A | 42v/2A 43.8v/4A | 54.6v/1.5A 58.4v/1.4A |
| | Rated Power | 73.5W | 84W | 81.9W |
| | LED Indicator | CC & CV Charging current > Rated current * 10%: RED ; CV Charging current <= Rated current * 10%: GREEN | | |

■ **Technical Specifications**

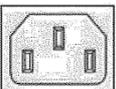
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|-------------|------------------|---|
| Input | Voltage Range | 90~264VAC |
| | Frequency Range | 47~63HZ |
| | Power Factor | 0.65 at 230VAC |
| | Efficiency | 90% |
| | AC Current | 3A/220VAC |
| | Inrush Current | Cold Start < 60A |
| | Leakage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

| | | |
|--------------------|-------------------------|--|
| | Over Temperature | 85°C±10°C(RTH2), automatically derate charge current to half max rated current. |
| Interface | RS485, CAN2.0B | For option, customized (M type) |
| | OLED Display | For option, voltage, current, charging time, SOC percent (M type) |
| | UART | Baud rate: 9600bps, 8 data bits, no parity, 1 Stop Bit |
| Environment | Working Temp. | -30°C~+60°C |
| | Working Humidity | 20~90% TH non-condensing |
| | Storage Temp. | -40°C~+85°C, |
| | Humidity | 10~95% TH |

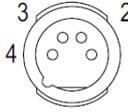
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|-------------------------|-----------------------------|---|
| Safety & EMC | Safety Standards | UL1012, EN/IEC60335, TUV EN62368,PSE J62368 KC K62368 |
| | Withstand Voltage | I/P-O/P:1.8KVAC, I/P-FG:1.8KVAC, O/P-FG:0.5KVAC |
| | Isolation Resistance | I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC/25 °C/70% RH |
| | EMC Emission | Compliance to EN55032 (CISPR32) Class B, EN62233, EN61000-3-2,-3, EAC TP TC 020 |
| | EMC Immunity | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55014, light industry level, criteria A, EAC TP TC 02 |
| Others | Dimension(mm) | 164*73*45 (L*W*H) |
| | Packing | 0.47Kg; pcs/ Kgs/ CBM |

■ Pin Assignment

DC output connector (Standard):

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

DC output connector (Optional):

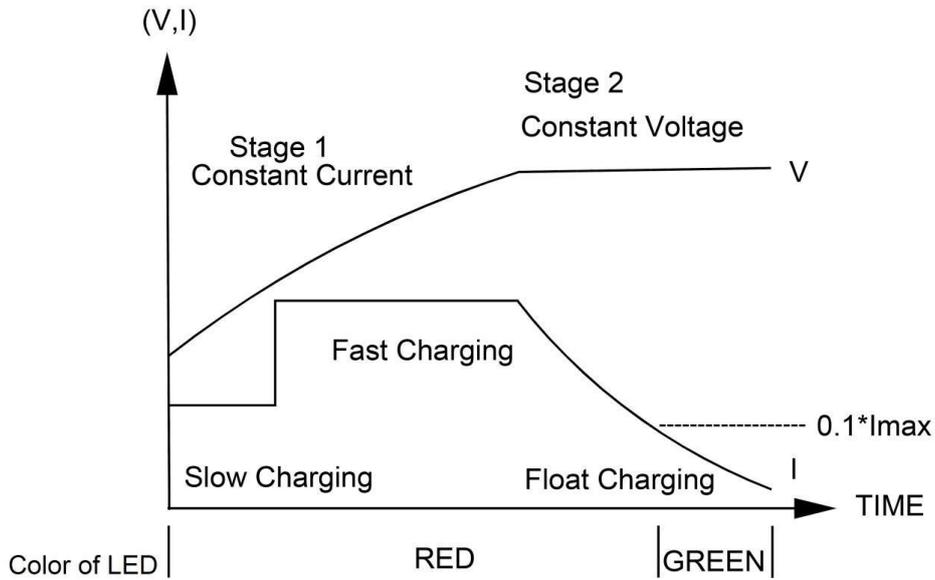
| 4pin XLR | | |
|--|----------------|---------------|
| UNICABLE 89M103-4P or equivalent | | |
|  | PIN NO. | OUTPUT |
| | 1,2 | +V |
| | 3,4 | -V |

DC output connector (Optional):

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

*Note: -V connected to AC FG

■ Charging Curve



*Note: This charging curve is for Li-Ion 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.