



例图型号: C300



#### ■ 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	With OLED display	Version (input 200-264V)	IP67 Waterproof	Plastic Case (input 200-264V)	Version (output > 48V) (input 200-264V)
KRECO P/N	C300	C300M	C300M-V1	C300M-V2	C300M-V3	C300M-V5

#### ■ Features

- Charger for lead-acid batteries (Flooded, Gel, and AGM) and Li-Ion batteries (lithium iron LiFePO4, lithium manganese and lithium nickel cobalt manganese) (Note. 1)
- AC voltage range 180 ~ 264VAC or 90 ~ 132VAC, or AC input range selected by switch
- 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 92%
- 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):

Output	Nominal DC Voltage	12V	24V	36V	48V	60V	72V	84V	96V
	Float/Boost Charge	14.6~16.8V	25.2~29.4V	42~43.8V	54.6~58.8V	67.2~73.5V	75V~89V	90V~110V	111~135V
	Rated Current (at 220VAC)	15A	10A	7A	5A	4A	3.5A	3.5A	2A
	Rated Current (at 110VAC)	15A	10A	6A	5A	4A	3.5A	3A	2A
	Part List (reference)	14.6v/6-15A 16.8v/6-15A	25.2v/8-10A 29.2v/8-10A 29.4v/8-10A	42v/5-7A 43.8v/5-6A	54.6v/4-5A 58.4v/4-5A 58.8v/4-5A	67.2v/3-4A 71.4v/3-4A 73.5v/3-4A	84v/3A 88.8v/3A		
	Rated Power	168W	294W	294W	294W	285.6W	294W	294W	300W
	LED Indicator	CC and CV Charging current > Rated current * 10%: <b>RED</b> ; CV Charging current <= Rated current * 10%: <b>GREEN</b>							

## ■ Technical Specifications

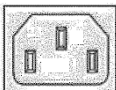
Input	Voltage Range	180~264VAC or 90~132VAC or Selected by switch
	Frequency Range	47~63HZ
	Power Factor	0.65 at 230VAC
	Efficiency	92%
	AC Current	3A/220VAC
	Inrush Current	Cold Start < 60A
	Leakage Current	<3.5ma/240VAC
Protections	Short Circuit	<b>RED</b> LED Fast Flashing and shut down output voltage; Recovers automatically after fault condition is removed.
	Reverse Polarity	
	Low Voltage	
	Over Current	

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

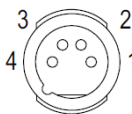
<b>Safety &amp; EMC</b>	<b>Safety Standards</b>	UL1012, EN/IEC60335, TUV EN62368, PSE J62368 KC K62368
	<b>Withstand Voltage</b>	I/P-O/P:1.8KVAC, I/P-FG:1.8KVAC, O/P-FG:0.5KVAC
	<b>Isolation Resistance</b>	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC/25 °C/70% RH
	<b>EMC Emission</b>	Compliance to EN55032 (CISPR32) Class B, EN62233, EN61000-3-2,-3, EAC TP TC 020
	<b>EMC Immunity</b>	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55014, light industry level, criteria A, EAC TP TC 02
<b>Others</b>	<b>Dimension(mm)</b>	137*90*50 (L*W*H); 280*130*86 (L*W*H)(IP67)
	<b>Packing</b>	1Kg; pcs/ Kgs/ CBM

## ■ Pin Assignment



DC output connector (Standard):

IEC320-C13		
	<b>PIN NO.</b>	<b>OUTPUT</b>
	N	+V
	L	-V

DC output connector (Optional):

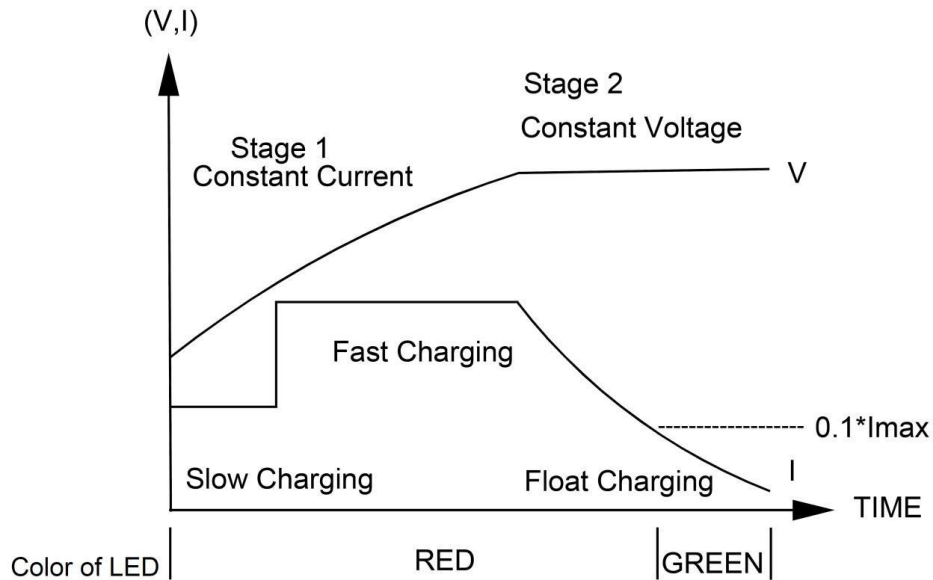
4pin XLR UNICABLE 89M103-4P or equivalent		
	<b>PIN NO.</b>	<b>OUTPUT</b>
	1,2	+V
	3,4	-V

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.

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