

[Eta-ON] CT-200 Series Wireless Power Transfer Solution



1 Tx control module 2 Tx coil module 3 Rx coil module 4 Rx control module

FEATURE

- High distance charging range
- Maximum 200W transmitting power
- Three types of receivers Max 116W (24V-05A), Max 126W (36V-04 A), Max 107.2W (48V-03 A)
- Protection: over voltage / over current / over temperature / Foreign Object Detection (FOD)
- High End-to-End Efficiency (DC-to-Battery) (Max. 88%)
- Monitoring & Power Management

SYSTEM COMPONENTS

- Transmitter (CT-200)
- Receiver (CR-24-05, CR-36-04, CR-48-03)
 - Receiver control module
 - Receiver coil module

VERSION

- Version 2.0 Mar 2024
- Version 1.1 Dec 2023
- Version 1.0 Aug 2023

SPECIFICATION

| TOTAL SYSTEM | | |
|--------------------------------|-------------------|--|
| CHARGING CHARACTERISTIC | FREQUENCY | 79 ~ 90 kHz |
| | EFFICIENCY (Max.) | 88 % (DC to Battery) |
| | CHARGE BATTERY | Li-ion battery (7, 10, 13 series pack) |
| | CHARGE MODE | CC/CV |
| | CHARGE RANGE | Opt. 0 – 40 mm distance(z-axis) offset Max. ±20 mm x-axis offset Max. ±20 mm y-axis offset |
| COMMUNICATION | Monitoring | UART |
| ENVIRONMENT | WORKINGTEMP. | up to 80°C |

| TRANSMITTER | | CT-200 |
|--------------------|--------------------------|---|
| INPUT | ACVOLTAGE | 220VAC |
| | CURRENT (MAX.) | 1.5 A |
| DIMENSION | CONTROL MODULE SIZE | 155 mm X 150 mm X 42 mm |
| | COIL MODULE SIZE | 200 mm x 106 mm x 18 mm |
| PROTECTION | OVER CURRENT | Power amp. Protection |
| | Foreign Object Detection | Conductive material sensing & shut down |

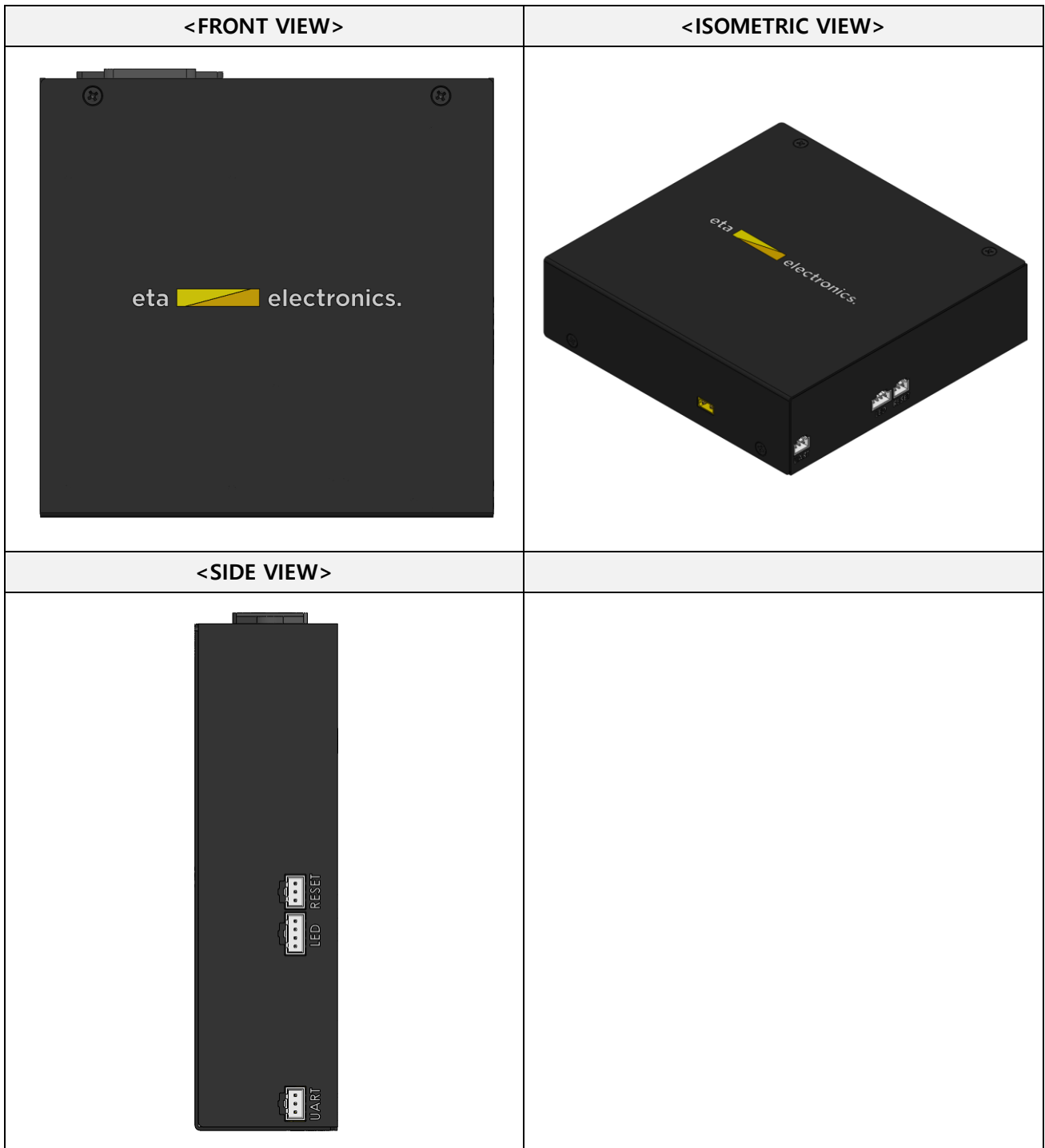
| RECEIVER | | CR-24-05 | CR-36-04 | CR-48-03 |
|-------------------|----------------------|---|-----------------|-----------------|
| OUTPUT | VOLTAGE RANGE | 15 – 29V | 25 – 42V | 38 – 53.6V |
| | CHARGE CURRENT (MAX) | 5 A | 4 A | 3 A |
| | CHARGE POWER (MAX) | 146W | 168W | 160.8W |
| DIMENSION | CONTROL MODULE SIZE | 110 mm X 83 mm X 18 mm | | |
| | COIL MODULE SIZE | 168 mm X 70 mm X 24.5 mm | | |
| PROTECTION | OVERVOLTAGE | 200 % rated voltage of full charged battery | | |
| | OVER CURRENT | 150 % rated output current | | |

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TRANSMITTER CONTROL MODULE



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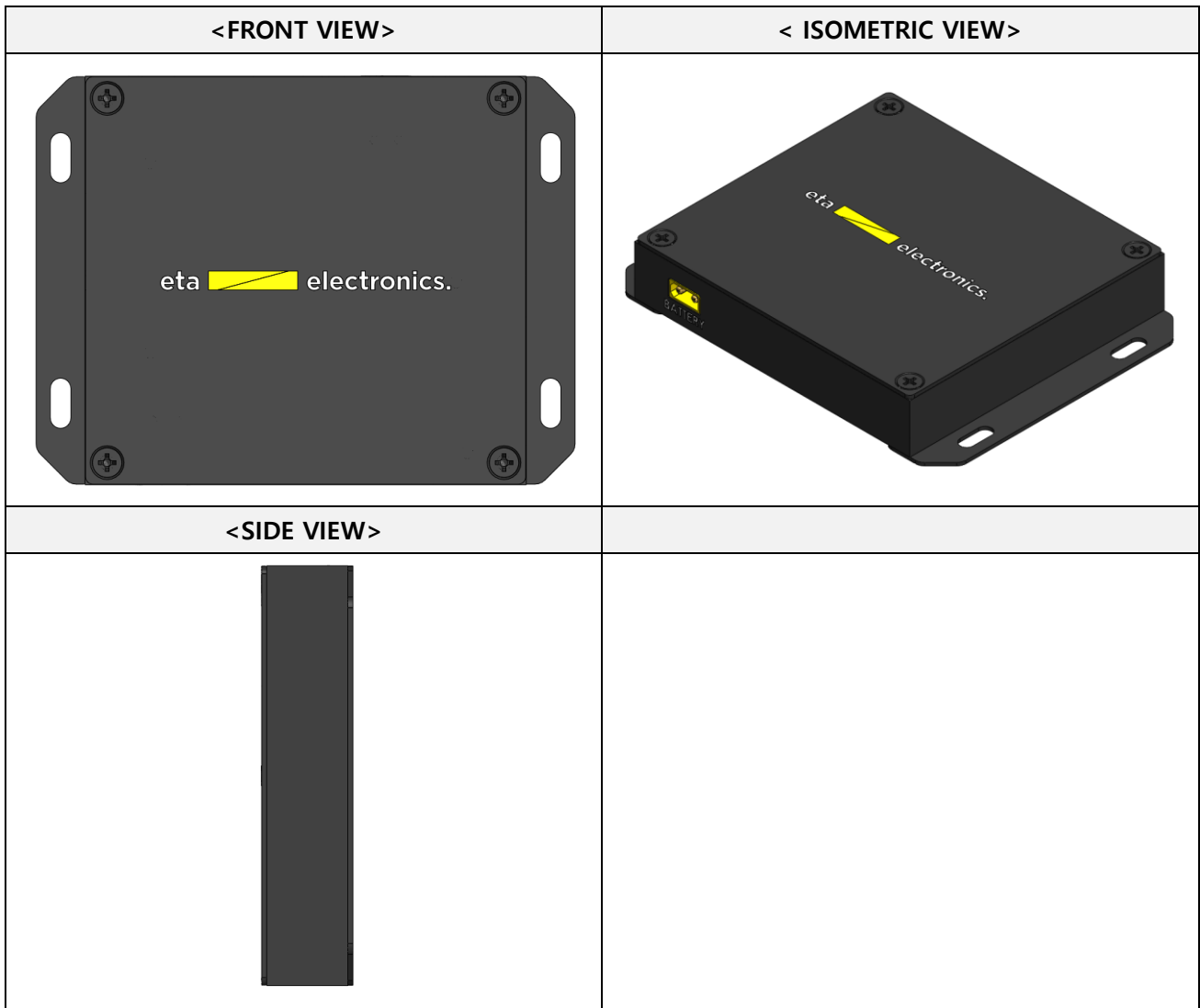
TRANSMITTER COIL MODULE

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RECEIVER CONTROL MODULE



RECEIVER COIL MODULE

