

## [Eta-ON] DT-3000 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 / Robust to misalignment
- Maximum 3,000 W transmitting power
- Receiver programmable according to battery specifications (7–14s Li-ion battery, Max 40 A)
- Protection: over voltage / over current / over temperature / Foreign Object Detection (FOD)
- High End-to-End Efficiency (DC-to-Battery) (Max. 88%)
- Pre-Charge / Full-Charge Function (User Setup)
- Compatible with wired charging and wireless charging
- Cloud Server Monitoring & Power Management / [Eta-PMS \(eta-on-pms.com\)](http://eta-on-pms.com)

Eta Electronics   [contact@etaelec.com](mailto:contact@etaelec.com)

HQ 38542 2514, Globalventure-dong, Gyeongbuktechnopark, 27, Sampung-ro, Gyeongsan-si, Gyeongsangbuk-do

R&D 04314 6F, 271, Wonhyo-ro, Yongsan-gu, Seoul

## SYSTEM COMPONENTS

- Transmitter (DT-3000)
  - Transmitter control module
  - Transmitter coil module
  
- Receiver (DR-40A)
  - Receiver control module
  - Receiver coil module
  
- Option 1. Tx/Rx Cable length (30, 50, 100 cm)
- Option 2. Server communication (Wi-Fi, LTE)

## VERSION

- Version 0.93 Mar. 2025

**SPECIFICATION**

<b>TOTAL SYSTEM</b>		
<b>CHARGING CHARACTERISTIC</b>	FREQUENCY	79–90 kHz
	EFFICIENCY (Max.)	88% (DC to Battery)
	CHARGE BATTERY	Li-ion battery (7–14 series pack)
	CHARGE MODE	CC/CV
	CHARGE RANGE	0–40 mm distance (z-axis) offset (10–35 mm Optimal distance) Max. ±30 mm x-axis offset Max. ±10 mm y-axis offset
<b>COMMUNICATION</b>	Server	Wi-Fi or LTE
	Application	CAN / UART
<b>ENVIRONMENT</b>	AMBIENTTEMP.	- 20 ~ 50°C

<b>TRANSMITTER</b>		<b>DT-3000</b>
<b>INPUT</b>	AC VOLTAGE	220 VAC
	CURRENT (MAX.)	16 A
<b>DIMENSION</b>	CONTROL MODULE SIZE	430 mm X 339 mm X 70 mm
	COIL MODULE SIZE	350 mm X 150 mm X 33 mm
<b>PROTECTION</b>	OVER CURRENT	Power amp. Protection
	Foreign Object Detection	Conductive material sensing & shut down

<b>RECEIVER</b>		<b>DR-40A</b>
<b>OUTPUT</b>	VOLTAGE RANGE	15–58.8V (Programmable voltage range)
	CHARGE CURRENT (MAX)	40 A
	CHARGE POWER (MAX)	2,352 W
<b>DIMENSION</b>	CONTROL MODULE SIZE	290 mm X 119 mm X 51 mm
	COIL MODULE SIZE	250 mm x 125 mm X 28 mm
<b>PROTECTION</b>	OVERVOLTAGE	105% rated voltage of full charged battery
	OVER CURRENT	120% rated output current

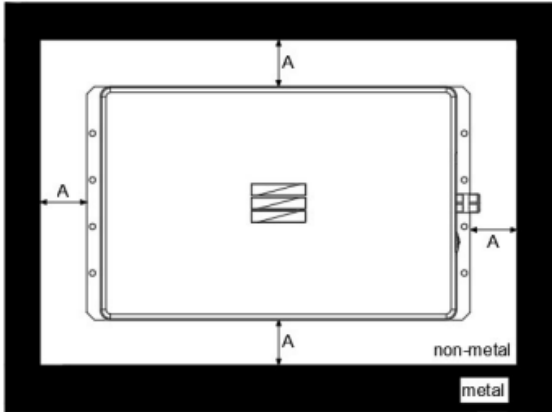
Eta Electronics [contact@etaelec.com](mailto:contact@etaelec.com)

HQ 38542 2514, Globalventure-dong, Gyeongbuktechnopark, 27, Sampung-ro, Gyeongsan-si, Gyeongsangbuk-do

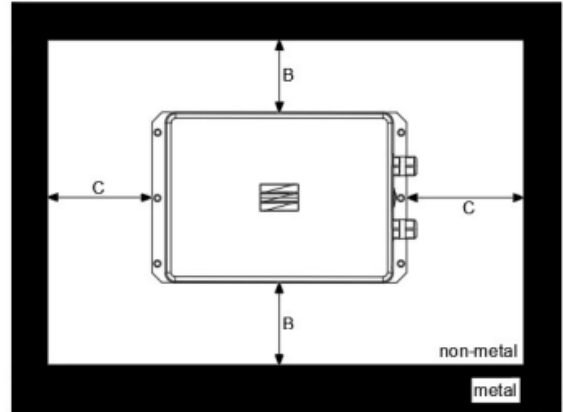
R&D 04314 6F, 271, Wonhyo-ro, Yongsan-gu, Seoul

# INSTALLATION GUIDE

Tx Coil Module



Rx Coil Module



(mm)	A	B	C	D	E
Tx Coil Module	35**	/	/	*Al : 0	/
				20	
Rx Coil Module	/	30**	120**	/	*Al : 0
					20

**\*Al : Aluminum**

**\*\*This numbers could be changed.**