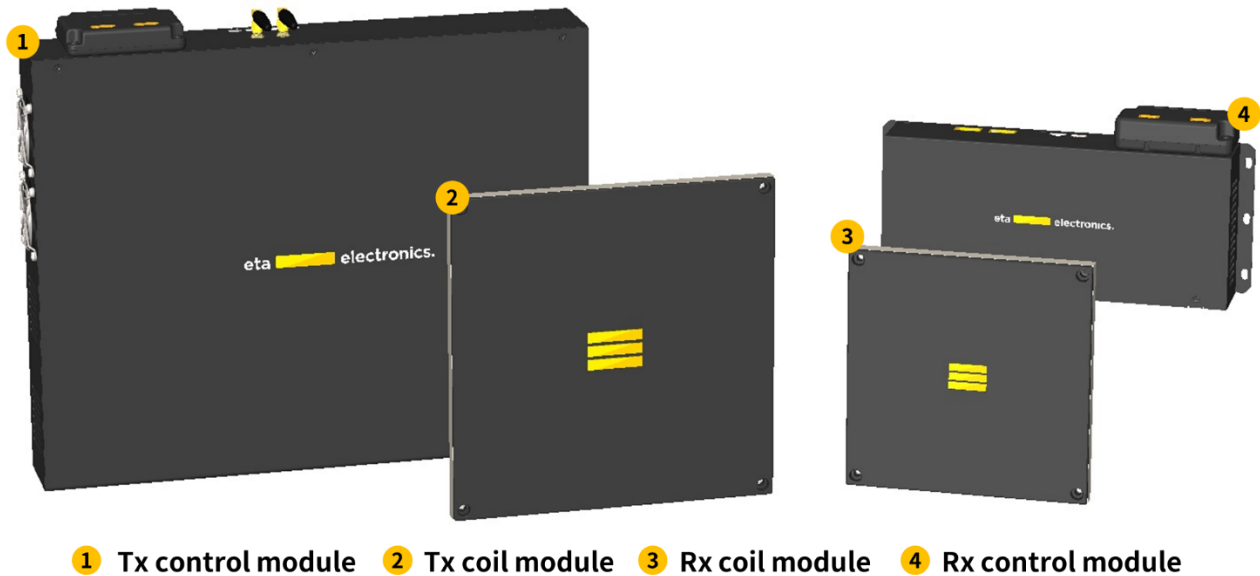


ELYX-40A Wireless PowerTransfer Solution



FEATURE

- High distance charging range / Robust to misalignment
- Maximum 3,000W 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 / [ELYX Link](#)

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- **SYSTEM COMPONENTS**
- Transmitter (DT-40A)
 - 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)

VERSION

- Version 0.95 Jan. 2026

SPECIFICATION

TOTAL SYSTEM		
CHARGING CHARACTERISTIC	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	0–50 mm distance (z-axis) offset (20–40 mm Optimal distance) Max. ± 50 mm x-axis offset Max. ± 50 mm y-axis offset
COMMUNICATION	Server	Wi-Fi
	Application	CAN
ENVIRONMENT	AMBIENTTEMP.	- 15 ~ 45°C

TRANSMITTER		DT-40A
INPUT	ACVOLTAGE	220 VAC
	CURRENT (MAX.)	16 A
DIMENSION	CONTROL MODULE SIZE	430 mm X 360 mm X 70 mm
	COIL MODULE SIZE	250 mm X 250 mm X 15 mm
PROTECTION	OVER CURRENT	Power amp. Protection
	Foreign Object Detection	Conductive material sensing & shut down

RECEIVER		DR-40A
OUTPUT	VOLTAGE RANGE	15–58.8V (Programmable voltage range)
	CHARGE CURRENT (MAX)	40 A
	CHARGE POWER (MAX)	2,352 W
DIMENSION	CONTROL MODULE SIZE	290 mm X 145 mm X 50 mm
	COIL MODULE SIZE	190 mm x 190 mm X 15 mm**
PROTECTION	OVERVOLTAGE	105% rated voltage of full charged battery
	OVER CURRENT	105% rated output current

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