

USI established the Green Design Innovation and Invention Patent Incentive System at the end of 2017. We give weighted scores to green-related designs to encourage a green and innovative corporate culture. In 2024, green products were designed and intensified the promotion based on the four main aspects of green product eco-design and four directions of green promise, the results of green-related design are as follows:

USI's Green Design in 2024

Product Design Aspect	Key Features	Performances
Choice of raw materials or components that have a lower environmental footprint	<ul style="list-style-type: none"> ● Miniaturization design and reduction waste 	<ul style="list-style-type: none"> ● Reduced raw material usage by a total of 294 kg in the annual shipment of miniaturized products. <ul style="list-style-type: none"> ◆ Utilized Computer Aided Design (CAD) reports to optimize the layout of components and wiring, reducing the use of capacitive/resistive components by up to 9%. ◆ Optimized the component layout density and wiring, and the PCB area is reduced by approximately 19%. ◆ Using the size code 0201 and 01005 components to improve the layout density and reduced space about 9%. ◆ Module size is reduced via advanced manufacturing process, and the area is reduced by approximately 13%.
	<ul style="list-style-type: none"> ● Using recycled materials 	<ul style="list-style-type: none"> ● Total 22.54 metric tonnes of recycled plastic and metal in products.
	<ul style="list-style-type: none"> ● Hazardous Substance management 	<ul style="list-style-type: none"> ● 100% met RoHS environmental protection requirements.
Direct operations, production & manufacturing	<ul style="list-style-type: none"> ● Reduction energy consumption 	<ul style="list-style-type: none"> ● We have optimized the testing time of our products, shortening the testing time by 31% and reducing the testing energy consumption by about 2,592 kWh, and optimize the test time of mass production products by about 10%~15%, saving energy 232 kWh. ● The products saved 63% in operation time through automated testing, and 30% in test time by optimizing the charging test.
	<ul style="list-style-type: none"> ● Improve material usage 	<ul style="list-style-type: none"> ● Improved design extends the lifespan of the metal welding tip, increasing its usage by up to 16,200 times.
	<ul style="list-style-type: none"> ● Manufacture CO₂ reduction and circular 	<ul style="list-style-type: none"> ● Facilities promote energy saving schemes, which saved a total of 4,395 MWh of electricity and reduced CO₂ emissions by 2,333 metric tonnes. ● We plan to recycle as much water as possible via improvement of equipment and technology, the process water recycling rate of 65%.
Distribution, storage, and transportation	<ul style="list-style-type: none"> ● Using recyclable and reusable packaging material 	<ul style="list-style-type: none"> ● USI recycled and reused about 38,000 plastic pallets, 7,000 wood pallets, 6.86 million trays, 0.46 million partitions, and 0.16 million recycling bins, reducing a total of 1,515 metric tonnes of waste.
Use phase - operation and servicing/maintenance	<ul style="list-style-type: none"> ● Improve energy efficiency 	<ul style="list-style-type: none"> ● The DC-DC conversion efficiency of the DC power supply of the server product is more than 90.6%.
	<ul style="list-style-type: none"> ● Energy efficiency regulation 	<ul style="list-style-type: none"> ● All internal power supplies complied with 80 Plus Titanium certification. ● 100% in compliance with the California Energy Commission Appliance Efficiency Regulations (CEC), European Commission's Eco-design Directive (EU ErP Lot 26) and the latest regulations of the EU Code of Conduct Tier 2 (CoC Tier 2).
	<ul style="list-style-type: none"> ● Energy saving 	<ul style="list-style-type: none"> ● In our product energy saving evaluation, eco-design products saved 152 GWh.
End of life management	<ul style="list-style-type: none"> ● Meet WEEE criteria 	<ul style="list-style-type: none"> ● Collaborated with customers and 100% met WEEE criteria in mechanical parts design. ● 770.6 metric tonnes of recyclable and reusable materials were used in USI's annual shipments.