History of Value Creation

Historical Context

1933-1936	1937-1970	1971-1990	1991-2010	2011-2025
As entertainment culture expanded, demand grew for more stable power supplies for projectors, raising expectations for power supply technologies.	Against the backdrop of postwar reconstruction and rapid economic growth, industrial equipment became larger and increasingly automated, driving greater demand for highly reliable power supplies.	Following the oil crisis, advances in energy conservation drove growing demand for power semiconductors and power control technologies.	Against the backdrop of growing environmental awareness and globalization, demand for greater energy efficiency continued to increase.	Digitalization, the growing adoption of renewable energy, the growing use of AI, and advances in decarbonization have led to increasingly sophisticated and diverse electricity demand.

1933-1936 Founding Period

Rectification and Stabilization Technologies

Developed rectification and stabilization technologies to minimize voltage fluctuations, fostering a reliability-driven design philosophy centered on ensuring continuous operation



Choke-Coil Autotransformer



Tungar Rectifier for Projectors

1937-1970 Establishment of the Technological Foundation



Fully Diffused Thyristor

High-Voltage and High-Current Technologies

High-current control technologies for welding, plating, and electrolysis; durable designs for use in harsh environments; and manufacturing technologies that achieve both mass production and high quality



Inverter Uninterruptible Power Supply



Electric Power Regulator



DC Arc Welder

1971-1990 Global Expansion and Increased Focus on Power Semiconductor Development



Insulated Triac

Power Semiconductor Technologies

In-house production of power semiconductors such as thyristors; integrated design of devices and power supply circuits; and a design philosophy focused on long service life and high efficiency



Thyristor Module



Plating Rectifier

1991-2010 Toward Further Globalization



Battery Charge/Discharge System



Diode Module

Optimal Design and Application Development Capabilities

Expertise in compact, high-efficiency design, tailored engineering solutions for diverse applications, and a manufacturing framework that meets international quality standards



Solar Power Conditioner

2011-2025 Toward a New Era



SiC Power Module



Power Conditioner for Fuel Cells



High-Capacity Power Conditioner Evaluation System

Power and Energy Conversion and Control Technologies

Integrated technologies combining power semiconductors, power supplies, and control; control technologies for energy storage and distributed energy resources; and system design capabilities based on a deep understanding of applications

Present

Evolution to the Present

The highly reliable and stable power supply technologies developed through power supplies for projectors have evolved into industrial power supplies and uninterruptible power supplies (UPS), supporting the stable operation of society.

The high-voltage and high-current technologies developed through industrial rectifiers have been carried forward into power supplies for surface treatment and battery charge/discharge systems, supporting the production of advanced semiconductors and storage batteries.

Power semiconductor technologies refined in response to growing energy-efficiency needs have evolved into SiC devices and power conversion equipment, enabling more efficient use of electricity.

Optimal design capabilities developed in global markets are helping solve customer challenges across a wide range of applications, including industrial power supplies and testing and evaluation equipment.

Energy conversion and control technologies have been applied to power supplies for renewable energy facilities and energy storage systems, supporting the transition to a decarbonized society and the advancement of power infrastructure.