

## TDK-Lambda's Modular Story

Seeing a niche market for multiple output power supplies, in 1979, TDK-Lambda was significantly involved in developing the modular power supply concept. Before this development, design engineers had to buy a separate power supply for each individual output voltage. Today, the company plays a leading role in modular power supply design and has several transformer construction patents, demonstrating our extensive knowledge in this field.

### **ML - The world's first semi-configurable power supplies**

In the same year, we introduced the ML series. The world's first semi-configurable power supplies. The series contained innovative diodes with plastic housings and regulators from Shindengen, as well as FETs. We offered the ML power supply series with outputs of 150W and 300W.

### **Omega Series - The world's first configurable power supplies**

In 1990, the Omega series was born - the first truly configurable power supply. The transformer was primary and secondary pluggable, and the modular concept allowed up to 100,000 standard configurations.

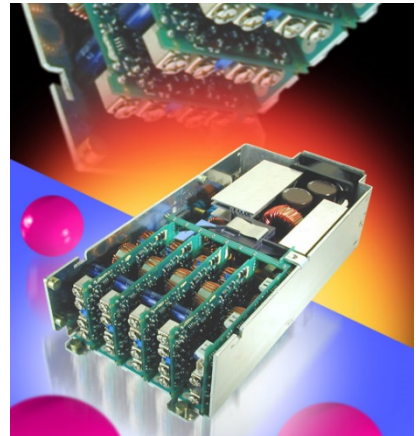


### **Alpha series with the first pluggable planar transformer**

In 1998, the Alpha series of configurable power supplies was introduced, in which we used a pluggable planar transformer for the first time.

## Flexible configuration with the Vega series

2001 sees the launch of the Vega series. The flexibility of these configurable power supplies was incredible, providing 650W or 450W output power in only 2 litres of housing volume (269mm x 127mm x 63mm), including fan and mounting brackets. They were up to one-third smaller than their predecessor, the Alpha, with 50W more power. Thanks to the modular design of the Vega series, the power can be distributed to up to 10 independent outputs, with any voltages between 1.8V and 64V (fixed or adjustable) at currents between 1A and 120A.



## NV Modular brought power in 1U case height

In 2004, NV350 was introduced, followed in 2007 by NV700, TDK-Lambda's 5<sup>th</sup>-generation modular power supply. An online [\*Quick Product Finder\*](#) enables engineers to choose the best combination of modules, converters and option cards from their requirements, and a high-efficiency power supply can then be quickly assembled using pre-built assemblies.

## QM Series – Quiet modular 2017

2017 saw the launch of the QM series (QM4, QM5, QM5H, QM7 and QM8) ranging from 550W-1200W low line and 650W-2000W high line. Combining 1 MOPP (1.5kVac) input to ground, 2 MOPP (4kVac) input to output and 1 MOPP (1.5kVac) output to ground isolation,



25°C, 115Vac/240Vac and 80% unit power

## MU – 1U Intelligent fan control

2022 sees the introduction of the MU Series. The MU4 (4 module slots) comes in a 1U fan-cooled Aluminium case, offering 600W low line and 800W high line. With intelligent fan control\*, the MU4 fan's rotation speed can be reduced, depending on operating conditions, producing audible noise as low as 36dBA\*.

*\*Patent pending. Configuration dependent, nominal conditions of*

With a great history, TDK-Lambda is still one of the world's largest manufacturers of power supplies, with production sites in Asia, America and Europe.