

Power Supply Product

300W Models Added to 200 - 425VDC Input DC-DC Converter Series

March 2017

TDK Corporation announces the introduction of 300W models to the TDK-Lambda PH-A280 series of DC-DC power modules with high voltage DC input. Operating from a wide range DC input of 200 to 425VDC, which is widely used in HVDC (High Voltage DC Current) applications, the PH-A280 range now includes 50, 75, 100, 150 and 300W outputs.

The new PH300A280 power modules are available in four output voltages; 12V, 24V, 28V and 48V. These outputs are adjustable over a very wide range of -60% to +20% to suit non-standard voltages. Efficiencies of up to 92% are achieved, an improvement of 5% over the prior PH series.

All modules operate at full load over a baseplate temperature range of -40 to +100°C making them suitable for liquid, air cooled or conduction cooled systems. The dimensions follow the industry standard half brick format (61.0 x 12.7 x 57.9mm).

As standard, the PH-A280 units are equipped with remote sense, remote on/off, overvoltage and overcurrent protection circuitry and include a 5-year warranty. All models have an input-to-output isolation of 3kVAC, are safety-approved to UL/CSA/EN 60950-1 and carry the CE mark in accordance with the LV Directive.

More information can be obtained at the following TDK-Lambda Americas website, <http://www.us.tdk-lambda.com/lp/products/pha-series.htm>, or by calling 800-LAMBDA-4. Product availability for the PH-A280 series can be found via the link to TDK-Lambda's distributor network (see "Check Distributor Stock to Buy") at <http://www.us.tdk-lambda.com/lp/>.

Major applications

- Industrial applications, smart city, test and measurement and power generation related equipment

Main features and benefits

- Industry standard ½ brick format
- High efficiency of up to 92%
- 200 to 425VDC input
- Output voltages of 12V, 24V, 28V and 48V

Major specifications

Model		PH300-A280
Input voltage range	Vdc	200 – 425
Nominal output voltages	Vdc	12, 24, 28 & 48
Efficiency (Typ.)	%	Up to 92% (48V Model, 280Vdc Input)
Maximum output power	W	300
Cooling	-	Conduction cooling
Operating temperature	°C	-40 to +100°C (Baseplate)
Safety	-	UL 60950-1, CSA 60950-1, EN 60950-1, CE Mark (LVD)
Size (W x H x D)	mm	61.0 x 12.7 x 57.9
Warranty	Years	Five

About TDK Corporation

TDK Corporation is a leading electronics company based in Tokyo, Japan. It was established in 1935 to commercialize ferrite, a key material in electronic and magnetic products. TDK's portfolio includes electronic components, modules and systems* marketed under the product brands TDK and EPCOS, power supplies, magnetic application products as well as energy devices, flash memory application devices, and others. TDK focuses on demanding markets in the areas of information and communication technology and consumer, automotive and industrial electronics. The company has a network of design and manufacturing locations and sales offices in Asia, Europe, and in North and South America. In fiscal 2016, TDK posted total sales of USD 10.2 billion and employed about 92,000 people worldwide.

* The product portfolio includes ceramic, aluminum electrolytic and film capacitors, ferrites, inductors, high-frequency components such as surface acoustic wave (SAW) filter products and modules, piezo and protection components, and sensors.

About TDK-Lambda Corporation

TDK-Lambda Corporation, a group company of TDK Corporation, is a leading global power supply company providing highly reliable power supplies for industrial equipment worldwide. TDK-Lambda Corporation meets the various needs of customers with our entire range of activities, from research and development through to manufacturing, sales, and service with bases in five key areas, covering Japan, Europe, America, China, and Asia.

For more details, please pay a visit to <http://www.tdk-lambda.com/>

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