

HSF-10-24-AA

General Purpose, 24VDC Switched-Mode, Power Supply



Version shown with the optional DFR-1-24 fire relay connected

- Universal AC range 90-264VAC
- High Energy efficiency
- Over voltage and overload protection
- Auto-reset after faults removed
- LED Power-ON indicator

Dycon's HSF-10-24-AA is a universal AC voltage input (110VAC to 230VAC), switched-mode power supply with rated output voltage of 24VDC and current output of 0 to 0.5 Amperes.

Typical efficiency is 81% for the 24VDC, meaning it consumes far less electricity than conventional linear units. An integral potentiometer enables the DC output voltage to be adjusted $-0.9 - \pm 10\%$ where required. These high-efficiency units have built-in protection against short circuit, over-voltage and over-load and are cooled by free air convection, eliminating the need for expensive, additional cooling fans. An LED power indicator is also included for visual verification of the correct DC output operation. Three versions are available, the standard HSF-10-24-AA, the HSF-10-24-AA-DFX-0P which has an integral Dycon DFX4-0P 4-way output splitter that enables up to four devices to be connected, and the HSF-10-24-AA-DFRX-1-24 which has an integral relay out board that can be used as a fire relay.

The HSF-10-24-AA is supplied in an attractive, small but tough steel housing, with a hinged/pivoted lid, secured by a single screw making servicing easier and quicker. This AA also housing has rounded corners to lessen dirt build-up and make cleaning easier.

General Purpose Switched-Mode Power Solutions

HSF-10-24-AA 24VDC 0.5A Power Solution

Specifications

Output	DC voltage	24VDC
	Voltage tolerance	±1%
	Rated current	0.5A
	Current range	0~0.5A
	Rated power	12W
	Ripple & noise	120mVp-p
	DC voltage ADJ. range	±10%
Input	Voltage range	90~264VAC
	Frequency	47~65Hz, 125~373VDC
	AC current	0.25A/115VAC o.15A~373VAC
	Efficiency	81%
	Inrush current	Cold start 15A/115V. 30A/230VAC
	Leakage current	<0.25mA/240VAC
Protection	Over-load	Rated power output 115%-135% start overload protection Protection type: hiccup mode, auto recovery after fault is removed
	Over-voltage	125%~150% Protection type: hiccup mode, auto recovery after fault is removed
Environment	Working temp, humidity	-10°C~+60°C, 20%~90%RH
	Storage temp, humidity	-20°C~+85°C, 10%~95%RH non-condensing
	Withstand vibration	10~500HZ, 2G 10min/1cycle, period for 60 minutes, each axis
Safety	Withstand voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC
	Isolation resistance	I/P-O/P, I/P-FG, O/P-FG:100Mohms/500VDC
Standards	Safety standard	Compliance to UL1012
	EMC standard	Compliance to EN55022, Class A
Others	Dimensions (h x w x d)	Module = 48 x 28 x 21mm; Housing = 178 x 110 x 68mm
	Weight/packing	Module 0.08kg; Housing 1.09 kg

Part No's & descriptions of the full range

Part No.	Description	Dimensions H x W x D (mm)
HSF-10-24-AA	24VDC 500mA power supply	178 x 110 x 68
HSF-10-24-AA-DFX4-0P	With Dycon DFX4-0P 4-way output splitter fitted	178 x 110 x 68
HSF-10-24-AA-DFR-1-24	With Dycon DFR-1-24 24VDC fire relay module fitted	178 x 110 x 68

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Dycon leads the security and associated power supply markets, with UK design and manufacture of advanced power products, engineered to provide high quality, cost-effective solutions to meet current regulations and the specific needs of system integrators and end-users.

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