

General description

The N1hFS 12W family of switch mode power supplies delivers typically 12W output and features small size and light weight.

The units are available in cable-cable and printed circuit module versions.

Typical applications are electric equipment for use in household- and information technology equipment area such as field bus systems, heat controllers, jalousie drivers supply of DC – motors etc.



Features

- **Output voltage fixed (6,5-24VDC)**
- **Output voltage stability $\pm 3\%$**
- **Output power typically 12W (max 1A)**
- **High efficiency**
- **Protection class II**
- **Short circuit proof**
- **Manufacturing according to ISO 9001**
- **Compact form factor**
- **Small size**
- **Wide operating temperature range (-25 to +50°C)**
- **Cable – cable version**
The unit is designed to fit into standard flush boxes and can be mounted onto wood-surfaces or materials with unknown flammability with screws. The connection to mains and to the customer unit is realised with cables.
- **Printed circuit board module version**
The unit is designed to be soldered onto a PCB with soldering pins.



Input Parameter	Min	Typ	Max	Unit
Input voltage	207	230	264	V
Input current			160	mA
Input frequency	47	50	63	Hz
Efficiency	65		80	%

Output Parameter	Min	Typ	Max	Unit
Output Voltage	6,5		24	V
Output voltage tolerance			3	%
Output power			12	W
Output current			1000	mA
Ripple voltage RMS		200	400	mV

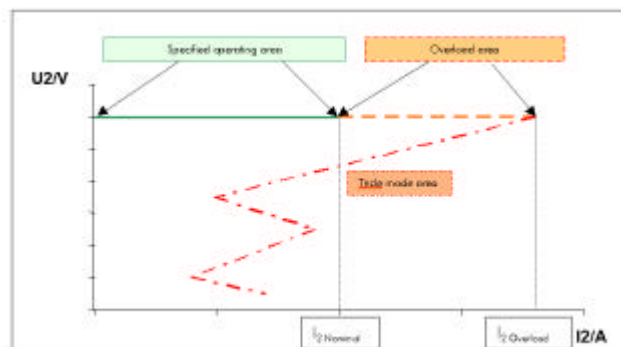
Safety and Environmental Conditions	Min	Typ	Max	Unit
Dielectric strength	3,75			KV/AC
Operation Temperature	-25		50	°C
Storage Temperature	-30		80	°C

Reliability	
MTBF according SN29500	1.000.000 h at 50°C ambient temperature and max load conditions

Test standards and approvals

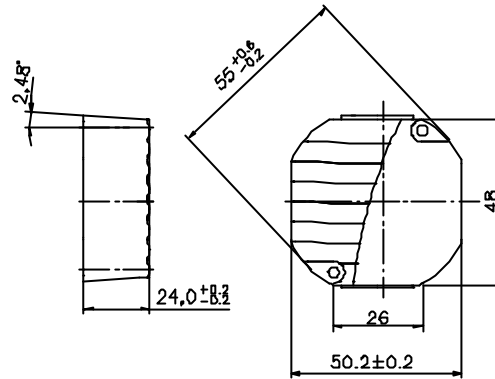
Test standards	Approvals
EN 60950 EN 60335-1 EN 61558-1 EN 61558-2-17 EN 61000-6-1 EN 61000-6-3	 

Typical output chart



Dimensions

Dimensions	Length	Width	Diameter	Height	Unit
N1hFS	50,2	47	55	24	mm



Cable - cable version

Printed circuit board module version

