

Fanless power supply for harsh environment

Output 125Vdc, 115Vdc, 110Vdc, 48Vdc, 24Vdc

• Ac and Dc Inputs

90... 305Vac and 250...430 Vdc
Switching mode power supply
Build-in power factor correction



• Output 1000 Watts

24Vdc, 48Vdc, 110Vdc, 115Vdc, 125Vdc
Switching mode regulation, 96% efficiency

• Wall or DIN rail mounting

vibration resistant : 10G

• Fully protected

Short circuits,
overload,
over temperature

• Natural air cooling

Wide temperature range -40°C to +70°C



The ALHE is an industrial ac/dc power supplies that can be operate under highly humid, dusty, oily, and high-vibration harsh environment. This power supply is housed in aluminum case and fully potted with heat-conducted silicone.

Description:

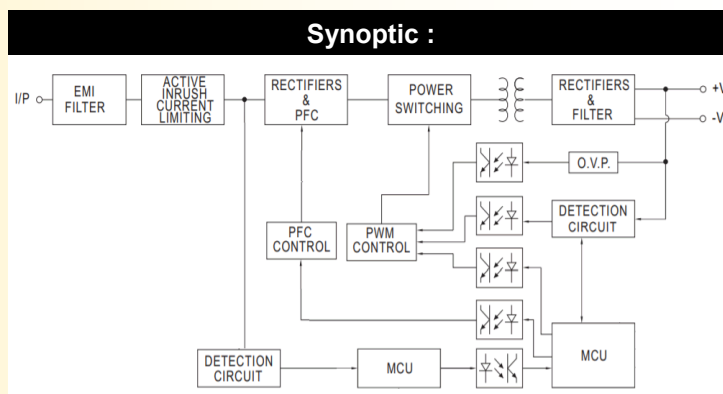
Switching power supply with high efficiency (96%)
Moulded and fanless design, cooling by natural convection and wide temperature range.
6 faces shields housing.

Feature:

- Aluminum case, DIN rail mounting or wall mounting
- IP20 protection rating, electronic : IP65
- high resistance to vibration and shock : 10G
- low sensitivity to humidity and dust,
- protected against overload:
 - current limitation (105 to 125%)
 - and cut-off after 5 seconds
 - automatic restart after default disappearance
- protected against continuous short circuits,
- thermal protection (output power limitation),
- built-in ECM filter.
- Led indication for power on
- Output voltage adjustment with potentiometer from 100% to 120%

Recommendation for implantation and installation:

- primary protection by fuse recommended (15A slow blow fuse)
- respect a position allowing a good dissipation.



Version and order code:

[Request a quote](#)

ALHE-uu : Input 90...305Vac and 250...430Vdc

uu =	24Vdc (42A)	1000W
	48Vdc (21A)	1000W
	110Vdc (10A)	1100W
	115Vdc (10A)	1150W
	125Vdc (10A)	1250W

Option

/RD : with hook for DIN rail mounting

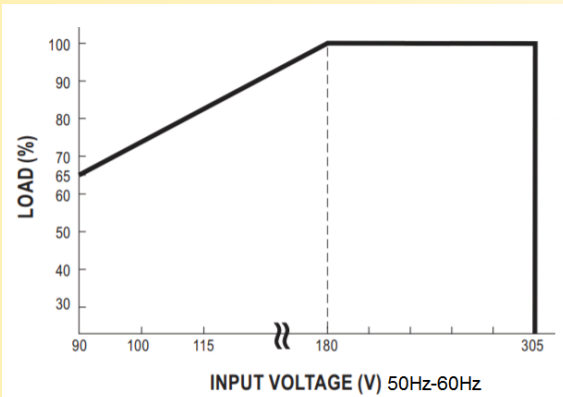
Power supply

Input voltage 90...305 Vac and 250...430 Vdc
see derating curve below
Input frequency 47...440Hz on request
Typical efficiency > 95%
Inrush current 40A typical @ 230Vac
Power factor PF>0.99/115VAC
(full load) PF>0.95/230VAC

Output

Output accuracy +/- 1% max.
Load regulation (output current variation) : +/-0.5%
Line regulation (input variation) : +/- 0.5%
Thermal stability +/- 0.03% / °C (0°C à 50°C)
Ripple and noise : < 500mVpp (band of 20mHz)
Continuous short circuit protected, automatic restart
Overload protection 110% typical (105 to 125%)
Switching frequency 60 to 70 kHz typical
Output hold time 15ms typical @ 230Vac

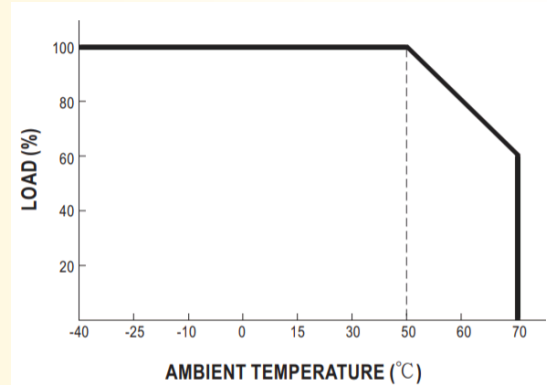
Output power versus input voltage



Environment

Operating temperature: -40°C.....+70 °C
Temperature derating 2.5%/°C above 50°C
see derating curve below
Thermal protection 100°C internal
Temperature storage -40°C.....85 °C
Humidity 10.....95 % (not condensed)
Isolation resistance 100 MΩ min. @ 500Vdc
Dielectric strength 3000VAC (input / output)
Weight 4 Kg
MTBF (+25°C) 200 000 hours (MIL-HDBK-217F)
Vibration: 20...500Hz, 10G 12min./cycle, axes X,Y,Z

Output power versus ambient temperature



Electromagnetic compatibility 2014/30/UE / Low Voltage Directive 2014/35/UE

Immunity standard for industrial environments EN 61000-6-2		Emission standard for industrial environments EN 61000-6-4
EN 61000-4-2 ESD	EN 61000-4-8 AC MF	EN 55011 group 1 class A
EN 61000-4-3 RF	EN 61000-4-9 pulse MF	
EN 61000-4-4 EFT	EN 61000-4-11 AC dips	
EN 61000-4-5 CWG	EN 61000-4-12 ring wave	
EN 61000-4-6 RF	EN 61000-4-29 DC dips	



WIRING AND OUTLINE DIMENSIONS:

