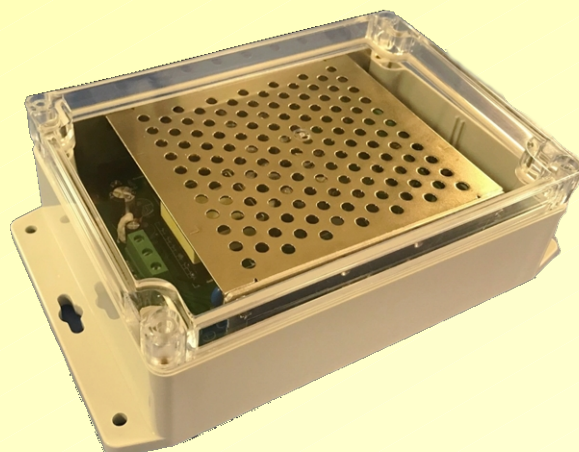


FEATURES

- Ultra-wide input voltage range AC and DC
460Vac....1500Vac ; 650Vdc....2250Vdc
- Output voltage : 12Vdc or 24Vdc, 35W
- Operating temperature: -25°C to 70°C
- High I/O isolation test voltage of 4200VAC
- High reliability, High efficiency, Long lifespan
- Output short circuit protection
- Over-current and Over-voltage protection



Selection Guide

Part No.	Output Power	Output Voltage and Current (Vo/Io)	Efficiency at 660VAC (1000Vdc) Input voltage
ALHV-12	40W	12V/3400mA	82 %
ALHV-24	35W	24V/1400mA	85 %

ALHV.. / IP in IP protection box

Input Specifications

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Input Voltage Range (AC)		460	--	1500	VAC
Input Voltage Range (DC)	2540Vdc / 1 seconde according EN50163	600		2250	VAC
Input Current	460VAC	--	--	0.2	A
	1400VAC	--	--	0.11	
Inrush Current	460VAC	--	10	--	
	1400VAC	--	30	--	
External input Fuse		1A/1200VAC, required			

Output Specifications

Item	Operating Conditions	Min.	Typ.	Max.	Unit	
Output Voltage Accuracy	All load range	--	±2	--	%	
Line Regulation	Rated load	--	±0.5	--		
Load Regulation	10% - 100% load	--	±1	--		
Ripple & Noise*	20MHz bandwidth (peak-to-peak value)	--	--	200	mV	
Temperature Coefficient		--	±0.02	--	%/°C	
Short Circuit Protection		Hiccup, continuous, self-recovery				
Over-current Protection		≥110%Io, hiccup, self-recovery				
Over-voltage Protection	12V output	<18VDC (Output voltage clamp / hiccup / turn off)				
	24V output	<40VDC (Output voltage clamp / hiccup / turn off)				
Minimum Load		0	--	--	%	
Hold-up Time	Room temperature, fullload	660VAC input	--	10	--	ms
		1100VAC input	--	50	--	
Start-up Delay Time		--	--	1	s	

General Specifications

Item	Operating Conditions	Min.	Typ.	Max.	Unit
Isolation	Input - output	4200	--	--	Electric Strength Test for 1min. leakage current < 5mA
	Input - PE	4200	--	--	
	Output - PE	4200	--	--	
Insulation Resistance	500VDC	> 50 000 000			Ohms
Operating Temperature		-25	--	+70	°C
Storage Temperature		-40	--	+85	
Storage Humidity		--	--	95	%RH
Power Derating	+50°C to +70°C (- 40 % @ 70%)	2.0	--	--	%/°C
	1300VAC to 1500VAC ; 1800Vdc to 2200Vdc	0.2	--	--	%/VAC
Switching Frequency		--	65	--	kHz
MTBF		MIL-HDBK-217F@25°C > 300 000 Hrs			

Mechanical Specifications

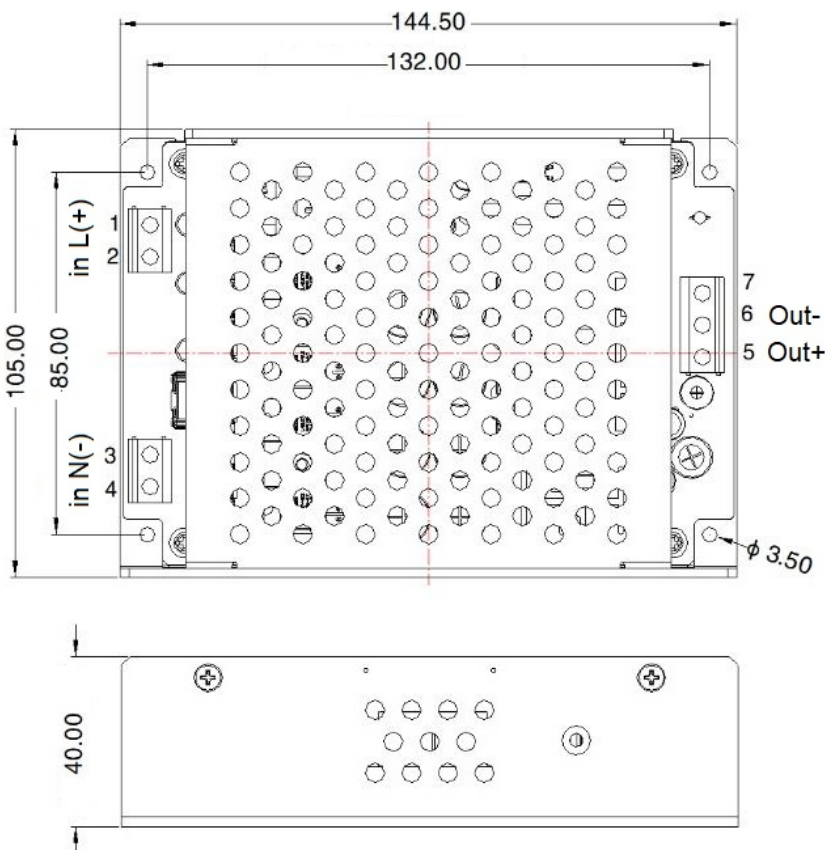
Case Material	metal
Dimensions	144.50 x 105.00 x 40.00mm
Weight	400g
Cooling method	Free air convection

Electromagnetic Compatibility (EMC)

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	



Dimensions and Recommended Layout



ALHV.. / IP in IP protection enclosure

