

- **AL140L : Single phase input and direct wide range input**

85Vac....265 Vac and 110Vdc....320Vdc

- **AL140L-HV : High level input or three-phase network**

85Vac....528 Vac and 120Vdc....750Vdc

- **AL140L-THV : Very High Voltage input DC or AC**

200Vac....800Vac and 200Vdc....1500Vdc

- **Protection** short-circuits, overload, thermal

- **1 to 3 isolated outputs, 10 to 180 Watts total**

Output coupling is possible

- **DIN rail mounting, cooling by natural convection**

- **Applications:** Photovoltaic, automatism, machine, instrumentation



Strong industrial medium power supply, fully protected (resin embedded modules), available from 1 to 3 isolated and independent outputs.

Description:

- SMPS power supply allowing high power density without heating due to its high efficiency.
- wide range of input voltage in alternative or continuous
- 1 to 3 isolated outputs allowing serial or parallel coupling, thereby obtaining exotic or symmetric voltage output, to increase the available output current, or create up to 3 levels redundancy.

Protection against overload (current limitation)

Protection against short-circuits

Protection against reverse polarity

Protection against undervoltage (locking)

Thermal protection (power limitation)

Natural convection cooling

low consumption with no load

Technical specifications:

Symmetric DIN rail mounting

Protection rating IP20

Internal silicone encapsulation, conformal coating,
high resistance to vibration and shock,
moisture and dust resistant.

Green LED for main voltage presence

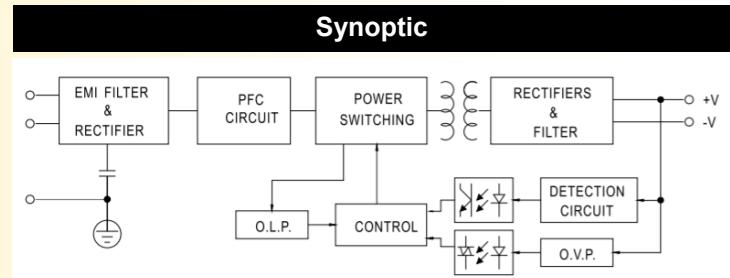
Connection on pluggable screw terminals, 2.5 mm².

Embedded EMC filter in accordance with EN55022 class A

Single output voltage : 3.3, 5, 12, 15, 24, 30, 48, 72, ...

or symmetrical : +/-5, +/-12, +/-15, +/-24,

(Specific output on request).



Implementation and installation recommendations:

- Main protection with fuse recommended (delayed 5A)
- Maintain a spacing for a natural ventilation
- Vertical mounting recommended.

Version and order code :

Request a quote

AL140L (HV-THV) -N-U-i :

AL140L 85Vac....265 Vac and 110Vdc....320Vdc

AL140L-HV 85Vac....528 Vac and 120Vdc....750Vdc

AL140L-THV 200Vac....800Vac and 200Vdc....1500Vdc

DIN rail enclosure (45 mm width)

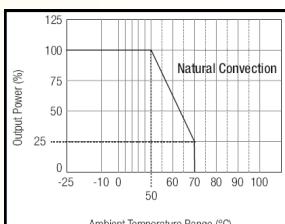
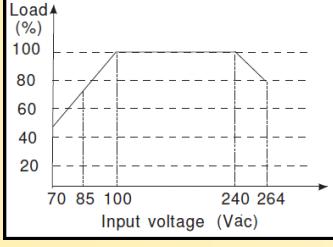
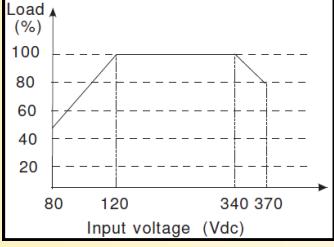
- **N** : number of output. 1 to 3

- **U** : output voltage : 5v, 9v, 12v, 15v, 24v,

- **i** : output current : according to voltage output

Option **-HF** frequency of input : 400 Hz

For the 2 or 3 outputs version, each outputs have a nominal power of 10 watts. Up to 100 Watts for single output version

Power supply		ENVIRONMENT
Input voltage (model dependant)	85....265Vac / 100...370Vdc 85....528Vac / 120...750Vdc 200Vac...800Vac and 200Vdc...1500Vdc	-25 °C to 50 °C (natural convection) 2.5%/°C above 50°C 100°C internal -40 °C to 85 °C 85 % (not condensed) ±0.02%/°C typical
Input frequency	47....440Hz	
Typical efficiency	> 85%	
Inrush current	15A typical	
Outputs		
Accuracy	+/- 2% max.	
Load regulation (output current variation)	+/- 2% max	
Line regulation (input variation)	+/- 0.5%	
Output hold time	Typical 50 ms.	
Ripple	< 0.5% Vout (limited to 20MHz)	
Thermal stability	+/- 0.03%/°C	
Overload protection	110% typ.	
Switching frequency	60kHz typ.	
Output power characteristics as a function of the input voltage standard AL140L version		
		
		
		
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 61000-4-3 RF EN 61000-4-4 EFT EN 61000-4-5 CWG EN 61000-4-6 RF		EN 61000-4-8 AC MF EN 61000-4-9 pulse MF EN 61000-4-11 AC dips EN 61000-4-12 ring wave EN 61000-4-29 DC dips
group 1 class A		

WIRING AND OUTLINE DIMENSIONS: