

## ■ DATASHEET: LP412412



### ■ INPUT

Input rated voltage (2xVac)	115 – 230Vac
Rated voltage range (115/230)	90 – 135 (115) / 180 – 264 (230)
Frequency	47 – 63Hz ± 6%
Input current (115Vac – 230Vac)	3,3 – 2,2A
Inrush current (Vn – In)	≤ 16A ≤ 5msec.
Internal fuse	T 6,3A
External fuse (recommended)	16A (MCB curve B)

### ■ OUTPUT

Output voltage (Vn) (factory setting)	24Vdc
Adjustment range (Vadj)	22 – 27Vdc
Start up with capacity load (max.)	≤ 50.000µF
Continuous current at 24V < 40°C	14A (permanent)
Continuous current at 24V < 50°C	12A (permanent)
Continuous current at 24V < 60°C	10A (permanent)
Max. current	In @60°C x (1,8-2,2)
Residual ripple	≤ 80mVpp
Efficiency	≥ 91%
Holdup time	typ. 20msec.
Over temperature protection	YES. Shut down and automatic restart
Overload protection	YES
Over voltage protection	YES
Short-circuit protection	1° Hiccup Mode, 2° Continuous mode, 3° Restart After Main
Parallel connection	YES "Easy Parallel"

### ■ CLIMATIC DATA

Ambient temperature (operation)	-25 - +70°C (>60° derating 2,5%°C)
Ambient temperature (storage)	-40 - +85°C
Humidity; no moisture condensation	95% to 25°C

**GENERAL DATA**

Isolation Voltage (Input/Output)	3000Vac
Isolation Voltage (Input / PE)	1605Vac
Isolation voltage (Output/PE)	500Vac
Electrical safety	EN60950 / EN50178 / IEC60950 / SELV EN60950-1 / PELV EN 60204-1
EMC Standards	Immunity: EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-6-2 Emission: EN61000-6-4
Standards conformity	EN60204-1 (safety of electrical equipment machines)
Degree of protection	IP 20
Protection class	I with PE connected
Reliability: MTBF IEC61709	>500.000h
Auxiliary contact	Max. DC1: 30Vdc 1A; AC1: 60Vac 1A (min. 1mA at 5Vdc) [EN60947.4.1]
dimension (w-h-d)	72 x 115 x 135
Weight	~0,65 kg

acc. to EMC 89/336/EEC and EMC 93/68/EEC  
low voltage directive 2006/95



- MANUAL RESET
- HICCUP MODE
- FOLD - BACK

Device does not start automatically.  
LED "DC": Switch off when is in overload range.



- MANUAL RESET
- HICCUP MODE
- FOLD - BACK

Device starts automatically.  
LED "DC": Switch off when is in overload range.  
Should be used if you have special loads (e.g. capacity)



- MANUAL RESET
- HICCUP MODE
- FOLD - BACK

Device starts automatically.  
LED "DC": Blink when is in overload range.  
The device tries to start again after a short time, if it is a failure on the primary side.

**DIMENSIONS**

