

DATASHEET: LP412422



INPUT

Input rated voltage (2x Vac)	115 – 230 Vac
Rated voltage range (115/230)	90 - 135 Vac / 170 - 264 Vac
Frequency	47 – 63Hz
Input current (115 Vac – 230 Vac)	8A – 4,2A
Inrush current ($V_n - I_n$)	$\leq 16A \leq 5msec.$
Internal fuse	T 10A
External fuse (recommended)	16A (MCB curve B)

OUTPUT

Output voltage (V_n) (factory setting)	24 Vdc
Adjustment range (V_{adj})	22 – 27 Vdc
Start up with capacity load (max.)	$\leq 50.000\mu F$
Continuous current at 24V < 40°C	25A (permanent)
Continuous current at 24V < 50°C	22A (permanent)
Continuous current at 24V < 60°C	20A (permanent)
Max. current	$I_n @ 60^\circ C \times (1,8-2,2)$
Residual ripple	$\leq 80mV_{pp}$
Efficiency	$\geq 92\%$
Holdup time	typ. 20msec.
Over temperature protection	YES. Shut down and automatic restart
Overload protection	YES
Over voltage protection	YES
Short-circuit protection	1° Manual Reset, 2° Hiccup Mode, 3° Continuous Out Mode
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)	85 x 120 x 140
weight	~0,75 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

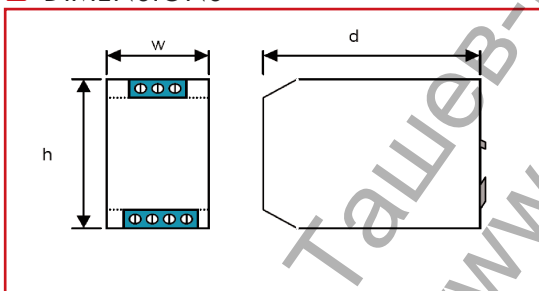
Device starts automatically.
LED "DC": Switch off when is in overload range.
Should be used if you have special loads (e.g. capacity)



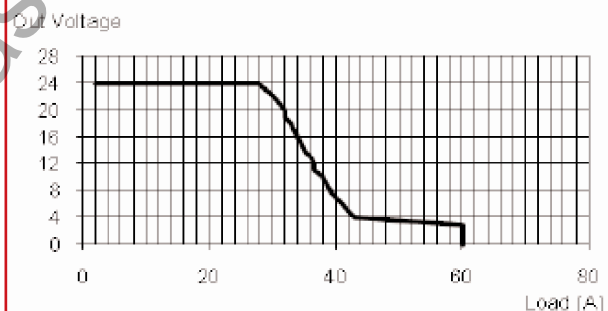
- MANUAL RESET
- HICCUP MODE
- FOLD - BACK

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



Output Voltage vs. Output Current, typ.



Output derating Curve
Continuous Load

