

# **6W FLUSH MOUNT POWER SUPPLY**

Our range of encapsulated 6W power supplies offers the perfect solution if your application demands extended service life and protection from harsh environments.

The compact shape is designed to be out of sight, fitting comfortably inside a wall mount installation box. Alternatively the power supply can be fixed to any surface. Polyurethane potting resin protects the electronic components from mechanical stress and water ingress.

#### **Features**

- Fully encapsulated
- MTBF can be done on customer request
- Ultra low standby losses
- High Efficiency
- Protection class II
- Various connection options
- Thermally protected and short circuit proof
- Premium quality Japanese brand capacitors
- Manufacturing according to ISO 9001
- Designed in Austria

Specification				
Output Power	6	W		
Output Voltage	24	V		
Output current	0.25	Α		
Universal input voltage	90 - 264	V		
Operating temperature	-20 - 70	°C		
Efficiency	typ. 81	%		
Standby Power	typ. 53	mW		
Efficiency level	VI			
Insulation of output	SELV			
Leakage current	max. 100	μA		



Test standards			
EN 55014-1			
EN 55014-2			
EN 55032			
EN 55024	General FMC standards		
EN 55011	General EMC standards		
EN 61000-3-2			
EN 61000-3-3			
EN 61000-6-1			
EN 62368-1	Information technology		
UL 62368-1	equipment		
EN 60335-1			
EN 61558-2-16	Household devices		
EN 61558-1			

**Approvals** 











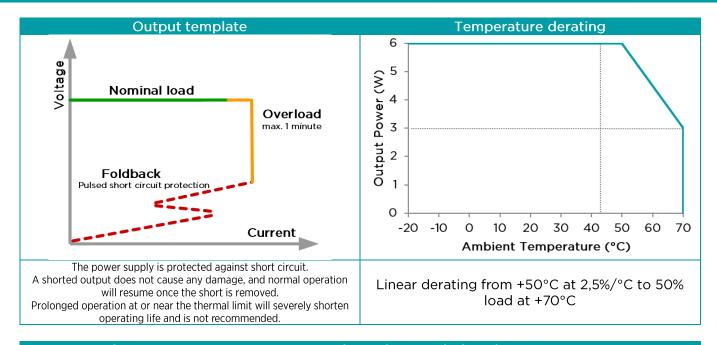


Parameter	Symbol	Min	Тур.	Max	Unit	Test Cond.
Specific	ations are su	bject to cl		hout any n	otice.	
	$U_IN$	90		264	$V_{AC}$	
Input Voltage				aximum input v	oltage may ca	
		1	1	e the unit does		specification.
Input Current	I <sub>IN</sub>	6	70	175	mΑ	
Input Frequency	f <sub>IN</sub>	47	50	63	Hz	
Efficiency	η		81		%	at full load
Stand-by power	P <sub>stb</sub>		53	75	mW	without load
International efficiency mark			VI			
Output Power	P <sub>out</sub>			6	W	
Output Voltage	$U_out$	22,8	24	25,2	$V_{DC}$	
Output voltage tolerance	$\Delta_{Uout\ PCB}$			5	%	at PCB
Ripple Voltage	U <sub>r rms</sub>			140	$mV_{rms}$	25°C ambient
Output Current	l <sub>out</sub>			6W/U <sub>out</sub>	Α	
			140			U <sub>IN</sub> = 264V
Max. Overload current	lout overload		140		$\%$ of $I_{out}$	U <sub>IN</sub> = 160V
			120			U <sub>IN</sub> = 90V
Isolation	Galvanic iso	olation with sa	fety extra low	voltage (SELV)	output	
5.1		4.0			1.57	50Hz
Dielectric Strength		4,0			$kV_AC$	sinusoidal waveform
Leakage current	I <sub>LK</sub>			100	μΑ	wavelolili
	I <sub>E</sub>		3.15	,,,,	A	input L
Internal Fuse	Approved for direct connection to 16A (20A) mains circuit.					
						free convection
Operating Temperature	T <sub>OP</sub>	-20	-20 70	°C	derating >50°C	
		The powe	r supply is the	rmally protecte	d against overl	
Thermal protection	Prolonged op	eration at or n			rely shorten o	perating life and is not
	<del>-</del>	7.0		commended.	0.0	I
Storage Temperature	T <sub>ST</sub>	-30	25	80	°C	
Humidity				95	%	non condensing
Altitude				3000	m	Operating
Atmospheric Pressure		70		106	kPa	
Single component failure	Single component failure A single component failure does not cause any damage to persons or ambient (fire, explosions, etc).				ent (fire, explosions, etc).	

Reliability			
MTBF	can be done on request	at 50°C ambient	
MTBF calculation according to standards	MIL-HDBK-217 F; - Notice 1; - Notice 2		
Maintainability The power supply is not to be repaired		not to be repaired	

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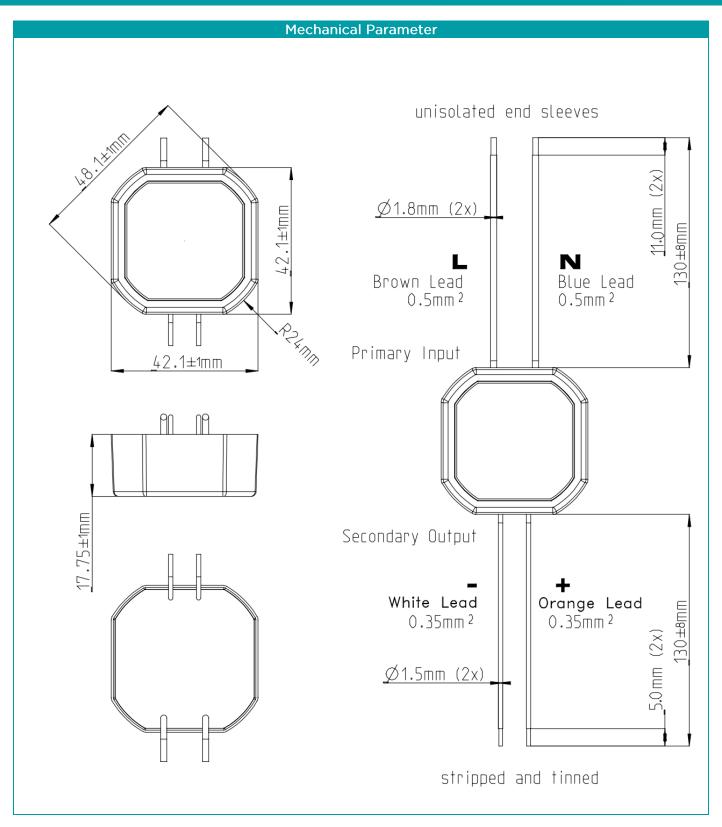
Laser marking	Marking plate symbol explanation		
	C€	Conformity with the relevant EU directives.	
	22	ENEC is the high quality European Mark for electrical products that demonstrates compliance with European standards (EN).  CAN BE DONE ON CUSTOMER REQUEST	
	9	Safety transformer	
Product name Input parameters	(I)S	Switch mode power supply unit	
Output parameters Safety instructions Date code	<b>(VI)</b>	Energy Efficiency Level VI	
CE marking Approval marks	cus	NRTL Canada / USA Mark issued by Curtis Straus.	
	RoHS conform	The power supply has to be disposed appropriately according the local regulations for Waste Electrical and Electronic Equipment.	
		For indoor use only.	
	<u>i</u>	Read instruction manual.	



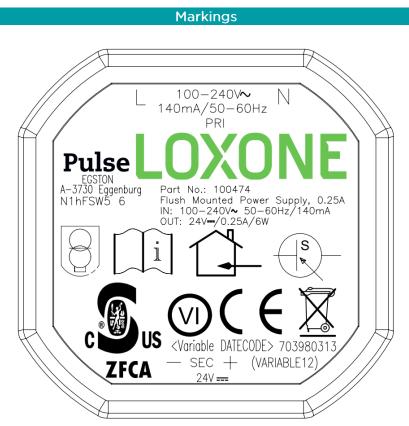
## Installation

The power supply must be installed in an environment that allows heat dissipation, do not enclose it in thermally insulating material.









Label for outercarton 140 x 90mm



Label for single carton 71 x 32mm







Packaging and weight				
	pcs	kg	size (mm)	
Single Carton	1	0,08	95x85x40	
Packaging Case	50	4	427x196x165	
Full EU-Pallet Layer, 10 Packaging cases	500	40	1200x800x165	
1 Full Pallet (9 Layer)	4500	360	1200x800x1500	

Emissions test	Compliance	Electromagnetic environment - guidance		
RF emissions CISPR 11	Group 1 The power supply uses RF energy only for its internal function. Therefore, its RF emiss are very low and are not likely to cause any interference in nearby electronic equipment.			
RF emissions CISPR 11	Class B			
Harmonic emissions IEC 61000-3-2	Complies	The power supply is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.		
Voltage fluctuations / flicker emissions IEC 61000-3-3	Complies	network that supplies buildings used for domestic purposes.		
Immunity test				
Electrostatic	± 4 kV contact			
discharge (ESD) IEC 61000-4-2	± 8 kV air			
Electrical fast transient/burst IEC 610004-4	± 2 kV (Mains input), 5/50ns, 5 kHz ± 2 kV (DC output),			
	5/50ns, 5 kHz			
Surge	Line-Line:± 0,5 kV, ± 1 kV			
IEC 61000-4-5		Line-to-ground: ± 0 ,5 kV, ± 1 kV, ± 2 kV		
Voltage dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	Test criterion C			
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz, 80%AM (1kHz)			
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 1 GHz 80%AM (1kHz)			

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### **Energy Efficiency**

This power supply family fulfills Directive 2009/125/EC with Commission Regulation (EU) 2019/1782. The vales "Average active efficiency", "Efficiency at low load" and "No-load power consumption" are typical measured values, measured at one representative sample at an input voltage of 230VAC.

Input specification			
Input Voltage	100-240	VAC	
Input Frequency	50-60	Hz	

	Output specification		
Output voltage	24	VDC	
Output current	0,25	А	
Output power	6	W	
Average active efficiency (100%/75%/50%/25%)	82,32	%	
No-load power consumption	61	mW	

Revision	Date	Author	Change
А	15.01.2021	Mauritz	First edition

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