

# Power supply · regulated, 240 W

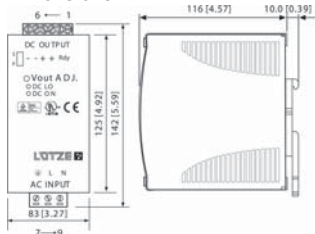
## Switchmode power supply, PFC, Single-phase

Input: wide-range input AC 93–132 V, AC 186–264 V, DC 210–370 V

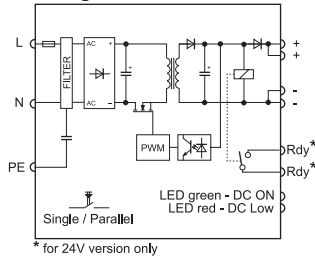
Output: 24 V / 48 V, adjustable



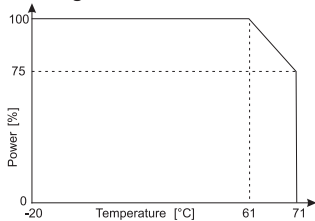
### Dimensions



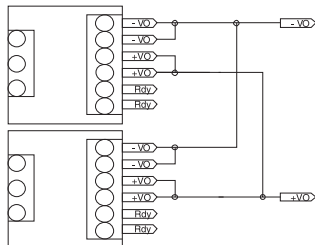
### PIN assignment



### Derating



### Parallel/redundant mode



Description	Part-No.	Type	PU	
<b>Screw terminal, pluggable</b>				
Output voltage/current	DC 24 V / 10 A	722759	DRA240-24B	1
	DC 48 V / 5 A	722778	DRA240-48B	1
<b>Screw terminal</b>				
Output voltage/current	DC 24 V / 10 A	722781	DRA240-24A	1

Input	DRA240-24B	DRA240-48B	DRA240-24A
Nominal voltage	AC 115 / 230 V (auto select)		
Operation voltage range	AC 88 V - 264 V / DC 120 V - 375 V		
Line frequency	47 – 63 Hz		
Rated current	U <sub>i</sub> = AC 115 V: 2.4 A / U <sub>i</sub> = AC 230 V: 1.2 A		
Inrush current	U <sub>i</sub> = AC 115 V: 30 A / U <sub>i</sub> = AC 230 V: 60 A		
Internal fuse	T6, 3 A / AC 250 V		
External fuse	Mini-circuit breaker: B 10 A, C 6 A		
Power Factor Correction P.F.C.	0.7		
<b>Output</b>			
Rated voltage output	DC 24 V	DC 48 V	DC 24 V
Rated current output	10 A	5 A	10 A
Max. output current	–		
Short-circuit current	–		
Voltage trim range	22.5–28.5	47/56 V	22.5–28.5 V
Accuracy	±1 %		
Line regulation	±0.5 %		
Load regulation	Single ±1 %, Parallel ±5 %		
Rise time	1 s		
Temperature coefficient	±0.03 % / °C		
Ripple & Noise	100 mV		
Hold up time	V <sub>in</sub> = 115 V: 25 ms / V <sub>in</sub> = 230 V: 30 ms		
Status indication DC ON LED green	≥17.6–19.4 V	≥37–43 V	≥17.6–19.4 V
Status indication DC LOW LED red	≤17.6–19.4 V	≤37–43 V	≤17.6–19.4 V
Parallel/redundant operation	max 3 devices with 90 % load current each, switching with switch S/P		
Efficiency	89 %	90 %	89 %
Low power loss	35 W (AC 230 V)	32 W (AC 230 V)	35 W (AC 230 V)
Rated over load protection	105–145 %		
Over voltage protection	120–145 %		
Short circuit characteristics	Current limit		
<b>General</b>			
Switching frequency	approx. 40 kHz		
Insulation voltage input/output	AC 3.0 kV <sub>eff</sub>		
Insulation voltage input / ground	AC 1.5 kV <sub>eff</sub>		
Insulation voltage output / ground	–		
Insulation resistance at DC 500 V	100 MΩ		
Operation temperature range	–40 °C – 71 °C (derating)		
Derating	–2.5% / °C starting at 61 °C		
Storage temperature range	–25 °C – 85 °C		
M.T.B.F.	423000 h	437000 h	423000 h
Relative humidity	20–90% RH, non-condensing		
Dimensions (w × h × d) in mm	83.0 × 126 × 116		
Cooling	Natural air cooling, 25 mm distance on all sides		
Housing material	metal		
Shock resistance	–		
Vibration resistance	–		
Field installation	rail TS 35 (EN 50022)		
Application height	4850 m		
Installation position	vertical		
Protection class	IP 20		
IP rating	I (SELV, PELV)		
Overvoltage category	II		
Pollution degree	2		
Weight (kg/piece)	1.000		
Termination	Screw terminal: 0.2–2.5 mm <sup>2</sup> - pluggable, max. 0.56 Nm		Screw terminal: 0.2–4.0 mm <sup>2</sup> , max. 0.62 Nm
Approvals	UL: UL 508 listed; cUL: UL 60950-1; TÜV: EN 60950, CE: EN 61000-6-3, EN 55022 Class B, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 55024 Class I, Division 2, Groups A, B, C and D		
<b>Monitoring</b>			
DC ON Control (Rdy)	Normally open	–	Normally open
Switching voltage	DC 60 V	–	DC 60 V
Switching current	max. 300 mA	–	max. 300 mA
Switching capacity	–	–	–
Insulation voltage	DC 500 V	–	DC 500 V