

# Power supply - regulated, 240 W

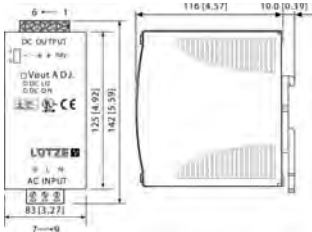
Primary switchmode power supply, PFC, Single-phase

Input: Wide range input AC 93 - 132 V; AC 186 - 264 V, DC 210 - 370 V

Output: 24 V / 48 V - adjustable

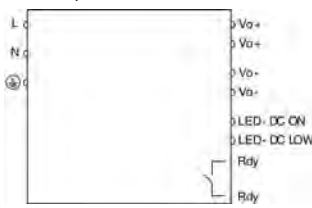


### Dimensions

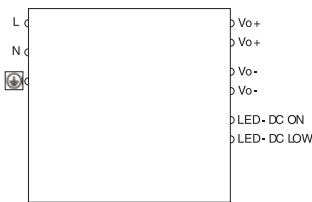


### PIN assignment

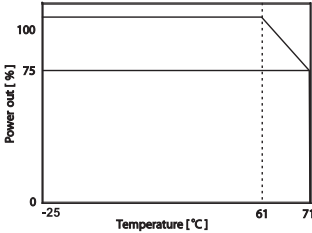
#### DC 24 V; 10 A



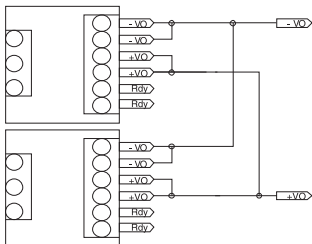
#### DC 48 V; 5 A, DC 24 V; 10 A



### Derating



### Parallel mode



Description	Part-No.	Type	PU	
<b>Screw terminal, pluggable</b>				
Output voltage/current	DC 24 V; 10 A	722759	DRA 240-24B	1
	DC 48 V; 5 A	722778	DRA 240-48B	1
<b>Screw terminal</b>				
Output voltage/current	DC 24 V; 10 A	722781	DRA 240-24A	1
<b>Input</b>				
	<b>DRA 240-24B</b>	<b>DRA 240-48B</b>	<b>DRA 240-24A</b>	
Nominal voltage	AC 115 / 230 V (auto select)			
Operation voltage range	AC 93–132 V; AC 186–264 V / DC 210–370 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	–			
Peak output 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 mode	max. 3 units at 90% load current, manual switch			
Efficiency	89 %	90 %	89 %	
Low power loss	–			
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	-25 °C – 70 °C (derating)			
Derating	-2.5% / °C starting at 60 °C			
Storage temperature range	-25 °C – 85 °C			
M.T.B.F.	423000 h	437000 h	423000 h	
Relative humidity	20–95% RH			
Dimensions (w x h x d) in mm	83.0 x 142.0 x 116.0			
Cooling	Air convection			
Housing material	metal			
Field installation	rail TS 35 (EN 50022)			
Application height	2000 m			
Installation position	vertical			
Protection class	IP 20			
Overvoltage category	II			
Pollution degree	2			
Protection class	–			
Weight (kg/piece)	1.000			
Termination	Screw terminal: 0.5–4.0 mm <sup>2</sup> , pluggable		Screw terminal: 0.2–2.0 mm <sup>2</sup>	
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			
<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	