

Power supply - regulated, 480 W

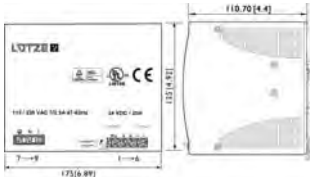
Primary switchmode power supply, PFC, Single-phase

Input: Wide range input AC 90 - 264 V; DC 120 - 370 V

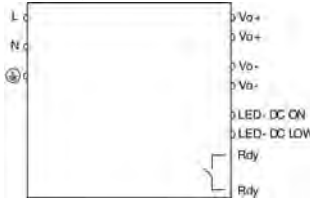
Output: 24 V / 48 V - adjustable



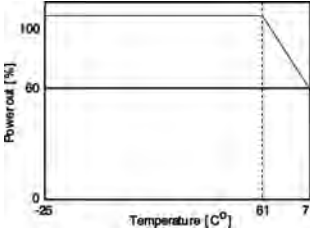
Dimensions



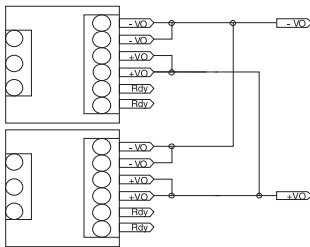
PIN assignment



Derating



Parallel mode



Description	Part-No.	Type	PU	
Screw terminal				
Output voltage/current	DC 24 V; 20 A	722782	DRA 480-24A	1
	DC 48 V; 10 A	722779	DRA 480-48A	1

Input	DRA 480-24A	DRA 480-48A
Nominal voltage	AC 115 / 230 V (auto select)	
Operation voltage range	AC 90–264 V; DC 120–370 V	
Line frequency	47 – 63 Hz	
Rated current	U _i = AC 115 V: 4.8 A / U _i = AC 230 V: 2.45 A	
Inrush current	U _i = AC 115 V: 25 A / U _i = AC 230 V: 50 A	
Internal fuse	T10 A / AC 250 V	
External fuse	Mini-circuit breaker: B 16 A	
Power Factor Correction P.F.C.	0.99	

Output	DC 24 V	DC 48 V
Rated voltage output	DC 24 V	DC 48 V
Rated current output	20 A	10 A
Max. output current	–	
Peak output current	–	
Voltage trim range	22.5–28.5 V	47/56 V
Accuracy	±1 %	
Line regulation	±0.5 %	
Load regulation	Single ±0.5 %, Parallel ±5 %	
Rise time	1 s	
Temperature coefficient	±0.03 % / °C	
Ripple & Noise	100 mV	
Hold up time	min. 30 ms	
Status indication DC ON LED green	≥17.6–19.4 V	≥37–40 V
Status indication DC LOW LED red	≤17.6–19.4 V	≤37–43 V
Parallel mode	max. 3 units at 90% load current, manual switch	
Efficiency	89 %	90 %
Low power loss	63 W	60 W
Rated over load protection	120–140 %	
Over voltage protection	125–137 %	119–131 %
Short circuit characteristics	Current limit	

General		
Switching frequency	approx. 60 kHz	
Insulation voltage input/output	AC 3.0 kV _{eff}	
Insulation voltage input / ground	AC 1.5 kV _{eff}	
Insulation voltage output / ground	–	
Insulation resistance at DC 500 V	100 MΩ	
Operation temperature range	-25 °C – 71 °C (derating)	
Derating	-4% / °C starting at 61 °C	
Storage temperature range	-25 °C – 85 °C	
M.T.B.F.	403000 h	416000 h
Relative humidity	20–95% RH	
Dimensions (w x h x d) in mm	175.0 x 125.0 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)	1.920	
Termination	Screw terminal: 0.2–6.0 mm ²	
Approvals	UL: UL 508 listed; cUL: UL 60950-1 accepted; TÜV: EN 60950-1, CE: EN 61000-6-3 / EN 55022 Class B, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 55024	

Monitoring		
DC ON Control (Rdy)	Normally open	–
Switching voltage	DC 60 V	–
Switching current	max. 300 mA	–
Switching capacity	–	–
Insulation voltage	DC 500 V	–