

Power supply - regulated, 480 W, 3-phase

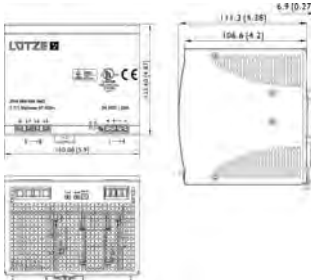
Primary switchmode power supply, PFC, 3-phase

Input: Wide range input AC 340 - 576 V; DC 480 - 820 V

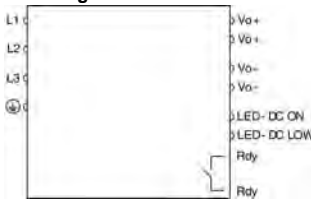
Output: 24 V / 48 V - adjustable



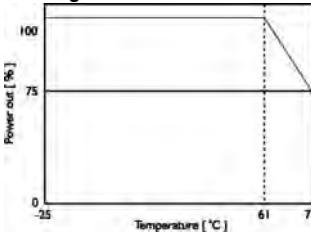
Dimensions



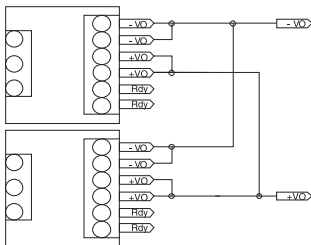
PIN assignment



Derating



Parallel mode



Description	Part-No.	Type	PU	
Screw terminal				
Output voltage/current	DC 24 V; 20 A	722805	WRA 480-24	1
	DC 48 V; 10 A	722809	WRA 480-48	1

Input	WRA 480-24	WRA 480-48
Nominal voltage	3x AC 380–500 V	
Operation voltage range	3x AC 340–576 V; 3x DC 480–820 V	
Line frequency	47 – 63 Hz	
Rated current	U _I = AC 400 V: 1.5 A / U _I = AC 480 V: 1.2 A	
Inrush current	20 A	
Internal fuse	T3, 15 A / per phase	
External fuse	Mini-circuit breaker: 3x B 10 A, C 6 A	
Power Factor Correction P.F.C.	0.7	

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	±1 %	
Load regulation	Single ±1 %, Parallel ±5 %	
Rise time	–	
Temperature coefficient	±0.03 % / °C	
Ripple & Noise	100 mV	
Hold up time	min. 20 ms	
Status indication DC ON LED green	≥17.6–19.4 V	≥37–43 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	90 %	
Low power loss	58 W	55 W
Rated over load protection	115–135 %	
Over voltage protection	125–137 %	125–142 %
Short circuit characteristics	Current limit (C) / Hiccup-mode (D), with switch C/D	

General		
Switching frequency	approx. 80 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	-2.5% / °C starting at 61 °C	
Storage temperature range	-25 °C – 85 °C	
M.T.B.F.	411000 h	423000 h
Relative humidity	20–95% RH	
Dimensions (w x h x d) in mm	150.0 x 125.0 x 116.0	
Cooling	Air convection	
Housing material	metal	
Field installation	rail TS 35 (EN 50022)	
Application height	3000 m	
Installation position	vertical	
Protection class	IP 20	
Overvoltage category	II	
Pollution degree	2	
Protection class	–	
Weight (kg/piece)	1.750	
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	–