

Anixter Level 1 for Industrial Network Environments

Power Supplies: 48V 5 A Single Phase



Anixter Item #	Product Description
L1-48V-5A-1P-DIN	Primary Switched-Mode Power Supply, Single Phase, 48 VDC / 5 A, DIN-rail mount.

Technical Data			
Input:			
Nominal input voltage Vi nom	110 240 VAC		
Input voltage range	85 264 VAC; 120 350 VDC (use of DC requires external protection)		
Input voltage derating	-1.5 % / V AC < 110 VAC		
Frequency	50 - 60 Hz		
Input current li	1.2 A at 230 VAC and 5 ADC		
Discharge current	1 mA typ.		
Inrush current	< 8 A (active inrush current limitation		
Mains failure hold-up time	20 ms typ. at 230 VAC		



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Nominal output voltage Vo nom 48 VDC (SELV)

Output voltage range 33 ... 52 VDC adjustable

Output current lo 5 A at 48 V DC

PowerBoost 10 ADC (for 4 s); 7.5 ADC (for 8 s)

TopBoost 30 ADC (for 25 ms)

Factory preset 48 VDC

Adjustment accuracy 1%

Residual ripple < 70 mV (peak-peak)

Current limitation 1.1 x lo typ.

Overload behavior TopBoost / PowerBoost / Constant curren

Operational indication LED green (Vo), LED red (error)

Signaling Relay contact DC O.K. (changeover contact)

Efficiency / power losses:

Efficiency 91 % typ.

Power loss PV 0.8 W (stand-by) / 7.4 W (no load) / 21.6 W (rated load)

Fuse protection:

Internal fuse 6.3 AT

External fuse Circuit breakers 6 A, 10 A, 16 A,, Characteristic: B or C; An external DC fuse is

required for the DC input voltage

Environmental requirements:

Ambient operating temperature -25 °C ... +70 °C; Device start at -40 °C (type-tested)

Storage temperature -25 °C ... +85 °C

Rel. humidity 30 % ... 85 % (no condensation)

Derating $-3 \% / K (> +50 \degree C)$ Degree of pollution 2 (acc. to EN 50178) Climatic category 3K3 (acc. to EN 60721)

Safety and protection:



Test voltage prisec./ prigr. / secgr.	D 4.2 kV DC / 2.2 kV DC / 0.7 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	via varistor at primary circuit
Short circuit protection	yes
No-load proof	yes
Feedback voltage	Max 63 VDC
Parallel operation	yes
Series connection	yes
Connection and type of mounting:	
Cross sections	Input/Output: 0.08 mm ² 2.5 mm ² / AWG 28 12; SIgnalising: 0.08 mm ² 0.5 mm ² / AWG 28 20
Strip lengths	Input/Output: Input/Output: 8 9 mm / 0.33 in; Signalising: 5 6 mm / 0.22 in
Type of mounting	DIN-rail mounting (EN 60715) in 2 positions
Dimensions and weight:	
Dimensions (mm) W x H x L	57 x 163 x 179 (incl female connector)
Weight	1475 g
Standards and approvals:	
Standards/Specifications	EN 60950, EN 61204-3, UL 60950, UL 508

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