

## POWER SUPPLY 1-PHASE, 48 V DC PIANO SERIES

PIC480.481D  
 PSU 100-240V ac I/P 48V dc 10A 480W O/P

- Output current of 10 A
- Width 59mm
- Efficiency up to 95,7%
- DC-OK relay



### PRODUCT DESCRIPTION

### TECHNICAL DATA

#### INPUT DATA

Input voltage ac	100-240 V
Input voltage ac min	90 V AC
Input voltage ac max	264 V AC
Inrush current at 120 V ac typical	18 A
Inrush current at 230 V ac typical	42 A
Input voltage range	Wide-range
Power factor at 120 V ac, full load. Typical	0.99
Power factor at 230 V ac, full load. Typical	0.97
Number of phases	1

#### OUTPUT DATA

Output voltage	48 V DC
Output voltage min	48 V DC
Output voltage max	56 V DC
Output current	10 A

<b>Power</b>	480 W
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## EFFICIENCY / LIFETIME / MTBF

<b>Efficiency at 120 V ac, full load, typical</b>	94.6 %
<b>Efficiency at 230 V ac, typical</b>	94.6 %
<b>Efficiency at 230 V ac, full load, typical</b>	95.7 %
<b>Lifetime at 120 V ac, full load and +40 ° C</b>	101000 h
<b>Lifetime at 230 V ac, full load and +40 ° C</b>	138000 h
<b>MTBF (IEC 61709) 230 V ac, max load, 40 ° C</b>	704000 h

## DIMENSIONS

<b>Width</b>	59 mm
<b>Height</b>	124 mm
<b>Depth</b>	127 mm
<b>Weight</b>	0.81 kg

## OTHER

<b>Approvals</b>	CB, CE, cULus
<b>Hold time at 120 V ac, typical full load</b>	27 ms
<b>Hold time at 230 V ac, typical full load</b>	27 ms
<b>IP class</b>	IP20
<b>Clamp type</b>	Screw
<b>Cable connection</b>	Screw max 6 mm <sup>2</sup> solid, 4 mm <sup>2</sup> stranded
<b>Load regulation</b>	<100 mV (0-10 A)
<b>Material protection</b>	Aluminium
<b>Supply frequency</b>	50-60 ±6 %
<b>Parallel connection for increased current</b>	Not allowed
<b>PFA (EN61000-3-2)</b>	Fulfilled (Class A)
<b>Primary fuse</b>	Min 10A B type or 6A C type
<b>Ripple max</b>	100 mV pp
<b>Series</b>	Piano
<b>Series connection for increased voltage</b>	Yes
<b>Power consumption 120 V ac</b>	4.3 A
<b>Power consumption 230 V ac</b>	2.3 A
<b>Temperature min without derating</b>	-25 °C
<b>Temperature max without derating</b>	55 °C

Transient

VDE 0160 (750 V, 0,3 ms)

Type Power Supply

AC-DC

DC relay output

Yes

