

POWER SUPPLY 1-PHASE, 24 V DC PIANO, 20A

PIC480.241D

PSU 100-240V ac I/P 24V dc 20A 480W O/P

- Output current of 20 A
- Width 49mm
- 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	15 A
Inrush current at 230 V ac typical	35 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	24 V DC
Output voltage min	24 V DC
Output voltage max	28 V DC
Output current	20 A

Power	480 W
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EFFICIENCY / LIFETIME / MTBF

Efficiency at 120 V ac, full load, typical	93.9 %
Efficiency at 230 V ac, typical	94.2 %
Efficiency at 230 V ac, full load, typical	95 %
Lifetime at 120 V ac, full load and +40 ° C	79000 h
Lifetime at 230 V ac, full load and +40 ° C	102000 h
MTBF (IEC 61709) 230 V ac, max load, 40 ° C	704000 h

DIMENSIONS

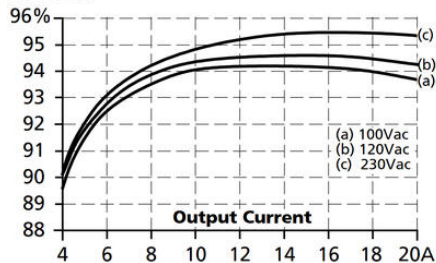
Width	59 mm
Height	124 mm
Depth	127 mm
Weight	0.81 kg

OTHER

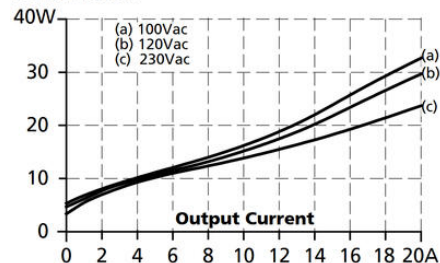
Approvals	CB, CE, cULus
Hold time at 120 V ac, typical full load	27 ms
Hold time at 230 V ac, typical full load	27 ms
IP class	IP20
Clamp type	Screw
Cable connection	Screw max 6 mm ² solid, 4 mm ² stranded
Load regulation	<100 mV (0-20 A)
Material protection	Aluminium
Supply frequency	50-60 ±6 %
Parallel connection for increased current	Not allowed
PFA (EN61000-3-2)	Fulfilled (Class A)
Primary fuse	Min 10A B type or 6A C type
Ripple max	100 mV pp
Series	Piano
Series connection for increased voltage	Yes
Power consumption 120 V ac	4.4 A
Power consumption 230 V ac	2.3 A
Power drop from +60 °C to + 70 °C	8 W/°C
Temperature min without derating	-25 °C

Temperature max without derating	55 °C
Transient	VDE 0160 (750 V, 0,3 ms)
Type Power Supply	AC-DC
DC relay output	Yes

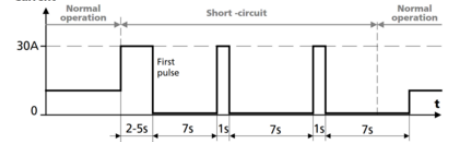
Efficiency



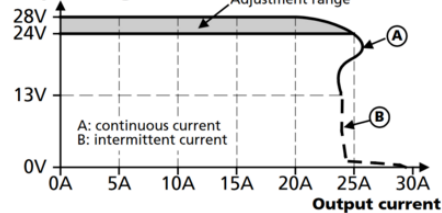
Power Losses



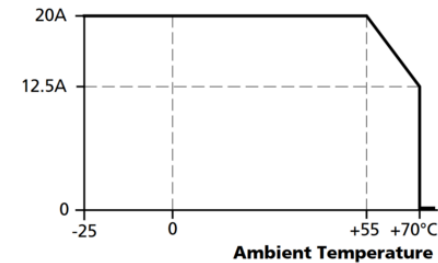
Output Current

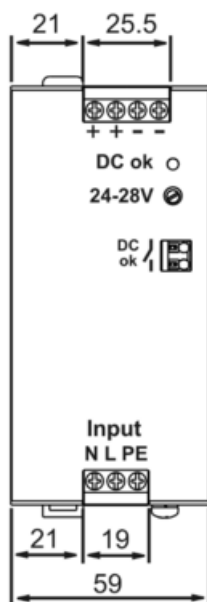


Output voltage



Allowed Output Current at 24V





All dimensions in mm

