POWER SUPPLY 1-PHASE, 24 V DC PIANO, 10A

PIC240.241C
PSU 200-240V ac I/P 24V dc 10A 240W O/P

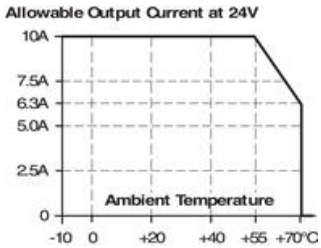


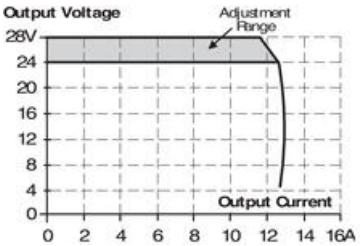
- Output current of 10 A
- Up to 91.4% efficiency
- Only 49 mm wide
- DC-OK relay output

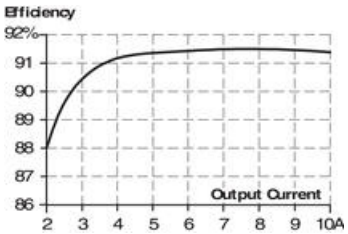
PRODUCT DESCRIPTION

These PIANO series units are extraordinarily compact, industrial grade power supplies that focus on the essential features required in today's industrial applications. The excellent cost/performance ratio presents many new and exciting opportunities without compromising quality or reliability.
The mechanically robust housing is made of a high-grade, reinforced molded material, which permits the units to be used in surrounding temperatures up to +70°C.
Since typical industrial applications do not require multiple mains inputs, the reduction to a regional input voltage range (AC 200 240V) simplifies the circuitry and has significant advantages for reliability, efficiency and cost.
The integrated DC-OK signal makes the unit suitable for many industry applications, such as process, automation and many other critical applications where preventive function monitoring can help to avoid long downtimes.

Output characteristics







Wiring

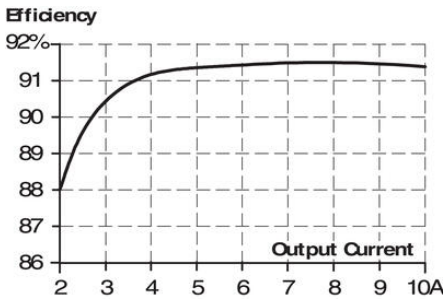


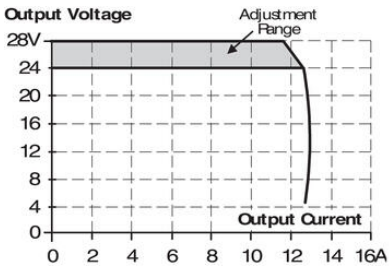
- A = Primary side, 230 V ac
- B = Secondary side, 24-28 V dc
- C = Potentiometer for voltage output
- D = DC-OK LED
  Lights green when the output voltage is over 18 V dc
- E = DC-OK output relay

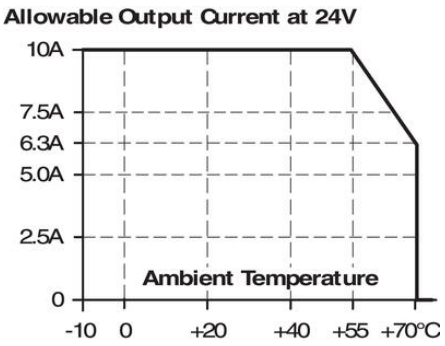
SPECIFICATIONS

Approvals	CB, CE, cRUus, cULus, GL
Cable Connection	Screw max 6 mm² solid, 4 mm² stranded
DC relay output	Yes
Depth	124
Effect	240
Efficiency At 230 V AC, full load. Typical	91.4
Efficiency At 230 V AC. Typical	90.9
Height	124
Hold-up time at 230 V AC, full load. Typical.	33
Input voltage AC	200-240 V
Input voltage ac max	264
Input voltage ac min	180
Inrush current at 230 V ac typical	48
IP Class	IP20
Lifetime at 230 V ac, full load and +40 ° C	38000

Load Regulation	<150 mV (0-10 A)
MTBF (IEC 61709) 230 V AC, Maximum Load, 40 ° C	791000
Number of phases	1
Output Current	10
Output voltage	24
Output voltage max	28
Output voltage min	24
Parallel Connection For Increased Power	Not allowed
PFA (EN61000-3-2)	Not met
Power Consumption At 230 V AC	2.2
Power Factor at 230 V AC, full load. Typical	0.52
Power Reduction Of 60 To 70 ° C	6
Primary Fuse	Min 16A B type or 10A C type
Ripple. max	100
Series	Piano
Series Connection For Increased Tension	Yes
Supply Frequency	50-60 ±6 %
Temperature Range Without Derating From	-10
Temperature Range Without Derating To	55
Transient	VDE 0160 (750 V, 1,3 ms)
Weight	0.55
Width	49

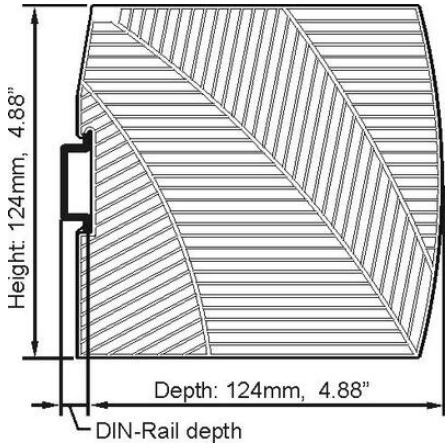







+ + − −
B
DC 24V 10A
DC ok
D
24-28V
C
DC ok
13
14
E
PULS
PIANO
PIC 240.241D
Power Supply
AC 100-240V
A
N L ⊕


+ + − −
DC ok
24-28V
DC
ok
N L PE
Width:
49mm
1.93”


Height: 124mm, 4.88”
Depth: 124mm, 4.88”
DIN-Rail depth