POWER SUPPLY 1-PHASE, 24 V DC PIANO SERIES

PIC240.241C
Powersupply 230VAC 24VDC/10A DC OK

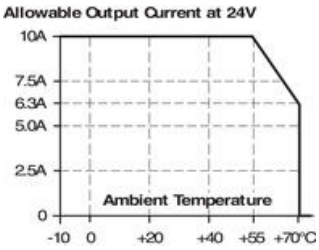


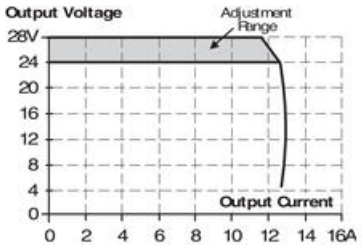
- Output current of 10 A
- Up to 91.4% efficiency
- Only 49 mm wide
- DC-OK relay output

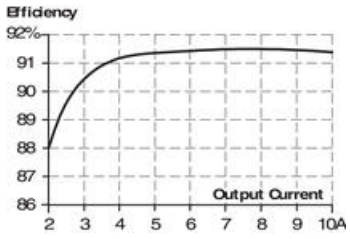
PRODUCT DESCRIPTION

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

Input voltage AC	200-240 V
Input voltage ac min	180 V AC
Input voltage ac max	264 V AC
Inrush current at 230 V ac typical	48 A
Power Factor at 230 V AC, full load. Typical	0.52
Number of phases	1

Output voltage	24 V DC
Output voltage min	24 V DC
Output voltage max	28 V DC
Output Current	10 A
Effect	240 W

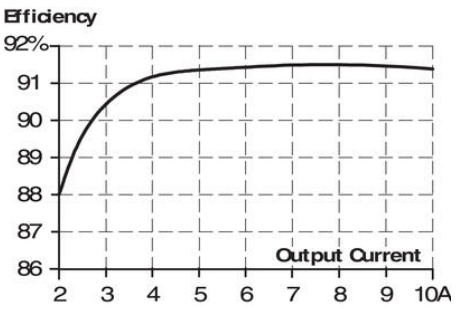
Efficiency At 230 V AC. Typical	90.9 %
Efficiency At 230 V AC, full load. Typical	91.4 %

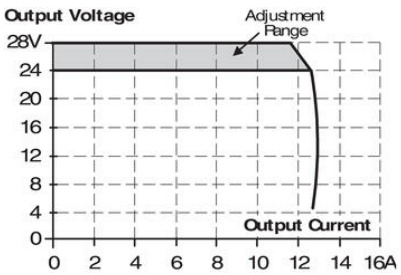
Lifetime at 230 V ac, full load and +40 ° C	38000 h
MTBF (IEC 61709) 230 V AC, Maximum Load, 40 ° C	791000 h

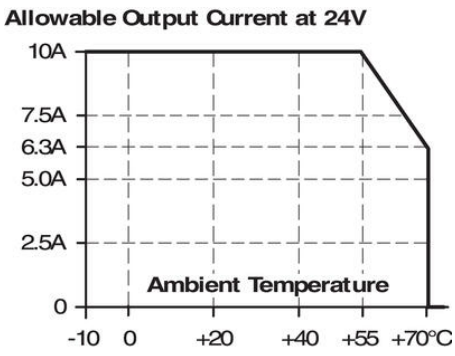
Width	49 mm
Height	124 mm
Depth	124 mm
Weight	0.55 kg

Approvals	CB, CE, cRUus, cULus, GL
Hold-up time at 230 V AC, full load. Typical.	33 ms
IP Class	IP20
Clamp type	Screw
Material Protection	Polycarbonate
Supply Frequency	50-60 ±6 %
Ripple. max	100 mV pp
Series	Piano
Power Consumption At 230 V AC	2.2 A
Power Reduction Of 60 To 70 ° C	6 W/°C
Temperature Range Without Derating From	-10 °C
Temperature Range Without Derating To	55 °C

Type Power Supply	AC-DC
DC relay output	Yes

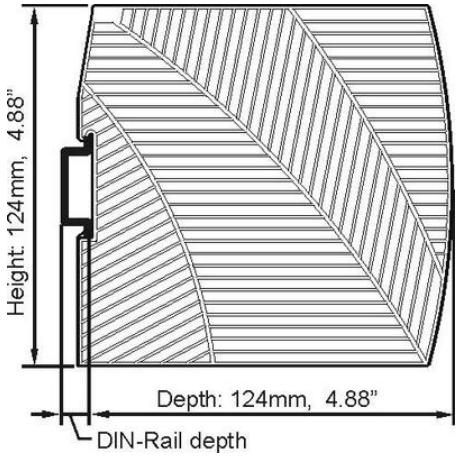







+ + − −
B
DC 24V 10A
DC ok
D
24-28V
C
DC ok
13
14
E
PULS
PIANO
PIC 240.241D
Power Supply
AC 100-240V
A
N L


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


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