POWER SUPPLY 1-PHASE, 24V DC LOW POWER PIANO SERIES

PIM36.241
PSU 100-240V ac I/P 24V dc 1.5A 36W O/P



- Output current between 1.5 A to 3.8 A
- Push-in or screw terminals
- Up to 93.8% efficiency
- Low no-load power losses

PRODUCT DESCRIPTION

The latest and smallest representatives of the PIANO product family are currently the 24V DIN rail power supplies PIM36 (36W), PIM60 (60W) and PIM90 (90W).
Mini power supplies. New space opportunities.

The new PIANO Mini (PIM) power supplies create space in your systems or machines and allow you a more flexible planning. A 90W DIN rail power supply in a 36 x 90 x 91mm (WxHxD) housing is currently unique in the market. The width of the 36W version is only 22.5mm - so literally a thumb's width. This results in completely new space opportunities for you.

Focus on core features.

The most important characteristic of the PIANO devices is their focus on the core features of a power supply: efficiency, lifetime, reliability and size. The very high PULS quality is maintained in each of these features.

An example is the high efficiency of 91.8% (PIM60) and 93.8% (PIM90) at full load and +40°C ambient temperature. This means lower heat losses. It makes the power supplies more durable and reduces your costs for the cooling of your system.

Push-in or screw terminals - you decide.

For the PIM60 and PIM90 you can choose between push-in and screw terminals. The push-in terminals reduce installation time, and are very reliable in environments prone to shock and vibration. In addition, they are ideally suited for robot-assisted wiring processes.

The screw terminals, that accommodate large diameter wires, are still popular in environments with minimal shock and vibration.

Growing power supply family.

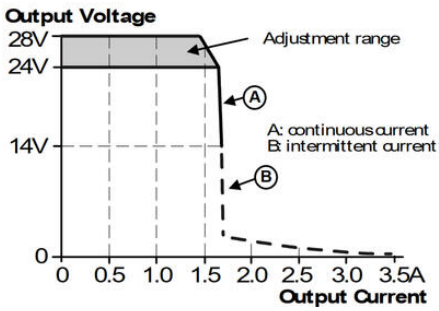
With the new PIANO Mini products, PULS now provides a complete, cost-oriented product family in the 36-480W power range.

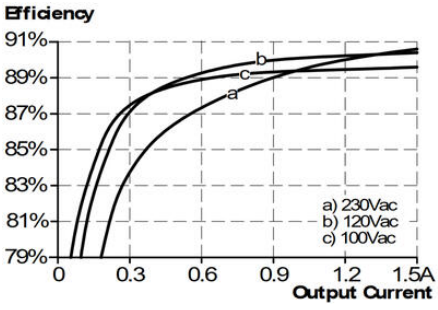
SPECIFICATIONS

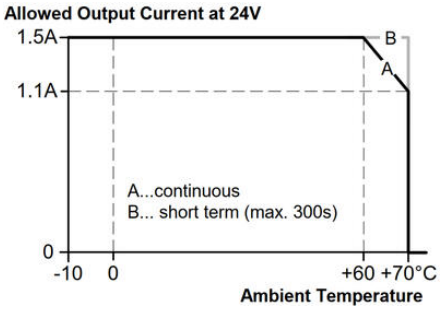
Approvals	CB, CE, cULus, NEC Class 2
Cable Connection	Push-in max. 2.5mm²
Depth	91
Effect	36
Efficiency At 120 V AC, full load. Typical	90.5
Efficiency At 230 V AC, full load. Typical	90.6
Efficiency At 230 V AC. Typical	88.2
Height	90

Hold-up time at 120 V AC, full load. Typical.	37
Hold-up time at 230 V AC, full load. Typical.	162
Input voltage AC	100-240 V
Input voltage ac max	264
Input voltage ac min	90
Input voltage range	Wide-range
Inrush current at 120 V ac typical	14
Inrush current at 230 V ac typical	40
IP Class	IP20
Lifetime at 120 V ac, full load and +40 ° C	162000
Lifetime at 230 V ac, full load and +40 ° C	161000
Load Regulation	<50 mV (0-1,5 A)
MTBF (IEC 61709) 230 V AC, Maximum Load, 40 ° C	2081000
Number of phases	1
Output Current	1.5
Output voltage	24
Output voltage max	28
Output voltage min	24
Parallel Connection For Increased Power	Not allowed
PFA (EN61000-3-2)	Fulfilled (Class A)
Power Consumption At 120 V AC	0.63
Power Consumption At 230 V AC	0.38
Power Factor at 120 V AC, full load. Typical	0.53
Power Factor at 230 V AC, full load. Typical	0.46
Power Reduction Of 60 To 70 ° C	0.96
Primary Fuse	Min 6A B type or 4A C type
Ripple. max	50
Series	Piano
Series Connection For Increased Tension	Yes
Supply Frequency	50-60 ±6 %
Temperature Range Without Derating From	-10
Temperature Range Without Derating To	60
Transient	VDE 0160 (750 V, 1,3 ms)
Weight	0.14

Width	22.5

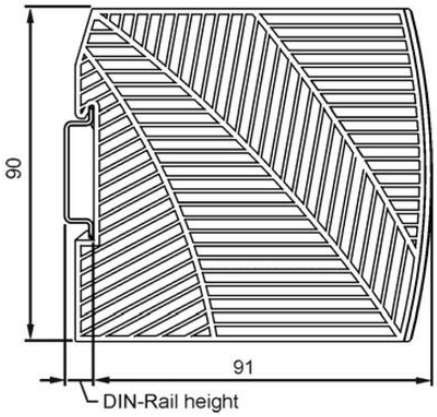

Output Voltage
28V
24V
14V
0
Adjustment range
A
B
A: continuous current
B: intermittent current
0 0.5 1.0 1.5 2.0 2.5 3.0 3.5A
Output Current


Efficiency
91%
89%
87%
85%
83%
81%
79%
a
b
c
a) 230Vac
b) 120Vac
c) 100Vac
0 0.3 0.6 0.9 1.2 1.5A
Output Current


Allowed Output Current at 24V
1.5A
1.1A
0
A
B
A...continuous
B... short term (max. 300s)
-10 0
+60 +70°C
Ambient Temperature


DC 24V 1.5A
+
+
-
-
DC ok
24-28V
PULS
PIANO
PIM 36.241
Power Supply
AC 100-240V
N
L


+
+
-
-
DC ok
24-28V
N
L
22.5


90
91
DIN-Rail height