

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

Input voltage range	Wide-range
Number of phases	1
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	14 A
Inrush current at 230 V ac typical	40 A

Power Factor at 20 Y AC, full load. Typical0,81Power Factor at 20 Y AC, full load. Typical0,60Stypic Foquary0,80Power Consumption At 200 V AC0,80Power Supply0,80Output offage0,80Type Power Supply0,90Output offage0,80Output offage0,80Output offage0,80Output offage0,80Output offage0,80Output offage0,80Output offage0,80Output offage0,80Power Supply0,80Output offage0,80Output offage0,80Power Supply0,80Output offage0,80Power Supply0,80Output offage0,80Power Supply0,80Power Supply0,80		
Supply Frequency9608 48%Power Consumption At 230 VAC0.83 APower Consumption At 230 VAC0.38 AType Power SupplyAC-DCOutput voltage0.47 V DCOutput voltage max0.80 V DCOutput voltage max0.80 W CPower Reduction Of 60 To 70 °C0.96 W CRipple max0.96 W CTomperature Range Without Derating From0.96 W CTeriteren Val 20 VAC, full Cod. Typical0.95 W CTeriteren Val 20 VAC, full Cod. Typical0.96 W C	Power Factor at 120 V AC, full load. Typical	0,53
Power Consumption At 230 V AC0,63 APower Consumption At 230 V AC0,38 APower Supply0,38 AOutput voltage4 V D COutput voltage min2 V D COutput voltage max2 N D COutput voltage max0,5 APower Rouge Diago0,80 W CRefet0,80 W CReport Range Without Derating From0,90 W CTemperature Range Without Derating From0,90 SEfficiency At 200 V AC, full load Typical0,90 SEfficiency At 200 V AC, full load and +40 ° C0,90 NIfferiency At 200 V AC, full load and +40 ° C0,90 NIfferiency At 200 V AC, full load and +40 ° C0,90 NIfferiency At 200 V AC, full load and +40 ° C0,90 NIfferiency At 200 V AC, full load and +40 ° C0,90 NIfferiency At 200 V AC, full load and +40 ° C0,90 NIfferiency At 200 V AC, full load and +40 ° C0,90 NIfferiency At 200 V AC, full load and +40 ° C0,90 NIfferiency At 200 V AC, full load and +40 ° C0,90 NIfferiency At 200 V AC, full load and +40 ° C0,90 NIfferiency At 200 V AC, full load and +40 ° C0,90 NIfferiency At 200 V AC, full load and +40 ° C0,90 NIfferiency At 200 V AC, full load and +40 ° C0,90 NIfferiency At 200 V AC, full load and +40 ° C0,90 NIfferiency At 200 V AC, full load and +40 ° C0,90 NIfferiency At 200 V AC, full load and +40 ° C0,90 NIfferiency At 200 V AC, full load and +40 ° C0,90 NIfferiency At 200 V AC, fu	Power Factor at 230 V AC, full load. Typical	0,46
Power Consumption At 230 V AC0.38 AType Power SupplyAC-DCoutput voltage4 V D COutput voltage min2 V D COutput voltage max28 V D COutput voltage max15 ADefet36 W CPower Reduction 0f 00 To 70 °C08 W CRipple. max010 °CTamperature Range Without Derating From10 °CTamperature Range Without Derating From00 °CEfficiency At 200 VAC. Typical08 % CEfficiency At 200 VAC. Typical08 % CEfficiency At 200 VAC. Typical08 % CEfficiency At 200 VAC. Typical08 % CIteline at 200 vac. full load and +40 °C16000 hMithh2,5 mmEfficiency At 200 VAC. Maximum Lead08 % CUtation1000 hIteline at 200 vac. full load and +40 °C16000 hMithh14 % CMithh14 % CStrong2,5 mmFigita0.1 % CMithh0.1 % CFigita0.1 % CMithh0.1 % CFigita0.1 % CFigita	Supply Frequency	50-60 ±6 %
AC-DC Action Ac-DC Action Acti	Power Consumption At 120 V AC	0,63 A
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Temperature Range Without Derating From -10°C Temperature Range Without Derating To 60°C Efficiency At 200 VAC, full load. Typical 90,5% Efficiency At 230 VAC, full load. Typical 80.8% Efficiency At 230 VAC, full load. Typical 90.6% Efficiency At 230 VAC, full load. Typical 80.8% Efficiency At 230 VAC, full load. Typical 80.6% Iteftime at 230 Vac, full load and +40°C 161000 h Charge State Sta	Power Reduction Of 60 To 70 ° C	0,96 W/°C
Temperature Range Without Derating To6 °CEfficiency At 20 V AC, full load. Typical9.5 %Efficiency At 230 V AC, Typical88.2 %Efficiency At 230 V AC, full load. Typical0.6 %Lifetime at 120 V ac, full load and +40 ° C162000 hMEBF (JEC 61709) 230 V AC, Maximum Load, 40 ° C0.6 %Viettime at 230 V ac, full load and +40 ° C0.8 %Viettime at 230 V ac, full load and +40 ° C0.8 %Viettime at 230 V ac, full load and +40 ° C0.8 %Viettime at 230 V ac, full load and +40 ° C0.8 %Viettime at 230 V ac, full load and +40 ° C0.8 %Viettime at 230 V ac, full load and +40 ° C0.8 %Viettime at 230 V ac, full load and +40 ° C0.8 %Viettime at 230 V ac, full load and +40 ° C0.8 %Viettime at 230 V ac, full load and +40 ° C0.8 %Viettime at 230 V ac, full load and +40 ° C0.8 %Viettime at 230 V ac, full load and +40 ° C0.8 %Viettime at 230 V ac, full load and +40 ° C0.8 %Viettime at 230 V ac, full load and +40 ° C0.9 %Viettime at 230 V ac, full load and +40 ° C0.9 %Viettime at 230 V ac, full load and +40 ° C0.9 %Viettime at 230 V ac, full load and +40 ° C0.9 %Viettime at 230 V ac, full load and +40 ° C0.9 %Viettime at 230 V ac, full load and +40 ° C0.9 %Viettime at 230 V ac, full load and +40 ° C0.9 %Viettime at 230 V ac, full load and +40 ° C0.9 %Viettime at 230 V ac, full load and +40 ° C0.9 %Viettime at 230 V a	Ripple. max	50 mV pp
Efficiency At 20 V AC, full load. Typical 90,5 % Efficiency At 230 V AC, Typical 88.2 % Efficiency At 230 V AC, full load. Typical 90,6 % Lifetime at 120 V ac, full load and +40 ° C 162000 h Lifetime at 230 V AC, full load and +40 ° C 161000 h MTBF (IEC 61709) 230 V AC, Maximum Load, 40° 2081000 h C 22.5 mm Width 90 mm Papth 91 mm Veight 9.14 kg Veight 91 mm Veight 91 mm <td< th=""><th>Temperature Range Without Derating From</th><th>-10 °C</th></td<>	Temperature Range Without Derating From	-10 °C
Efficiency At 230 V AC. Typical82.%Efficiency At 230 V AC, full load. Typical90.%Lifetime at 120 V ac, full load and +40 ° C62.000 hLifetime at 230 V AC, full load and +40 ° C61.000 hMETBE (IEC 61709) 230 V AC, Maximum Load, 40 °0.81.000 hVidth22.5 mmPidth90 mmDepth91 mmVidth9.14 kgVidth9.14 kgPinePineArgroyalsPineApprovals9.02 culus, NEC Class 2Material Protection9.02 culus, NEC Class 2	Temperature Range Without Derating To	60 °C
Efficiency At 230 V AC, full Ioad. Typical90,6 %Lifetime at 120 V ac, full Ioad and +40 ° C16200 hLifetime at 230 V AC, full Ioad and +40 ° C16100 hMTBF (IEC 61709) 230 V AC, Maximum Load, 40 ° c2081000 hWithh2081000 hVidth90 mmHeight90 mmDepth91 mmViding91 mmCamp typePush inFriesPush inApprovalsEG C: ULUS, NEC Class 2ApprovalsBiogrammeter	Efficiency At 120 V AC, full load. Typical	90,5 %
Lifetime at 120 V ac, full load and +40 ° C162000 hLifetime at 230 V ac, full load and +40 ° C161000 hMTBF (IEC 61709) 230 V AC, Maximum Load, 40 ° C2081000 hWidth22,5 mmVidth90 mmDepth90 mmDepth01 h kgC2000 hSeriesPianoApprovals08, CE, cULus, NEC Class 2Material ProtectionPolycarbonate	Efficiency At 230 V AC. Typical	88,2 %
Lifetime at 230 V ac, full load and +40 ° C16100 hMTBF (IEC 61709) 230 V AC, Maximum Load, 40 °2081000 hVidth2081000 hWidth91,5000 hHeight90 mmDepth91 mmVeight0,14 kgCampe typePush inSeriesPianoApprovals0.8 C, C/ULUS, NEC Class 2Meterial ProtectionPolycarbonate	Efficiency At 230 V AC, full load. Typical	90,6 %
MTBF (IEC 61709) 230 VAC, Maximum Load, 40°2081000 hWidth2,5 nmWidth90 nmHeight90 nmDepth91 nmWeight0.14 kgCamp typePushiaSeriesPianoApprovals0.5 C. C. CLUS, NEC CLASS 2Material ProtectionPiographical Currents	Lifetime at 120 V ac, full load and +40 ° C	162000 h
c 22,5 mm Width 22,5 mm Height 90 mm Depth 91 mm Weight 0,14 kg Camp type Push in Series Piano Approvals CB, CE, CLUS, NEC Class 2 Material Protection Pioyarbonate	Lifetime at 230 V ac, full load and +40 ° C	161000 h
Height90 mmDepth91 mmWeight0,14 kgClamp typePush inSeriesPianoApprovalsCB CC CLass 2Material ProtectionPioparbanetee		2081000 h
Depth 91 mm Weight 0,14 kg Clamp type Push in Series Piano Approvals CB, CE, cULus, NEC Class 2 Material Protection Polycarbonate	Width	22,5 mm
Weight0,14 kgClamp typePush inSeriesPianoApprovalsCB, CE, cULus, NEC Class 2Material ProtectionPioyarbonate	Height	90 mm
Clamp typePush inSeriesPianoApprovalsCB, CE, cULus, NEC Class 2Material ProtectionPolycarbonate	Depth	91 mm
Series Piano Approvals CB, CE, cULus, NEC Class 2 Material Protection Polycarbonate	Weight	0,14 kg
Approvals CB, CE, cULus, NEC Class 2 Material Protection Polycarbonate	Clamp type	Push in
Material Protection Polycarbonate	Series	Piano
	Approvals	CB, CE, cULus, NEC Class 2
Hold-up time at 120 V AC, full load. Typical. 37 ms	Material Protection	Polycarbonate
	Hold-up time at 120 V AC, full load. Typical.	37 ms

162 ms

IP Class

IP20

