DATASHEET

ELECTRO PLATING RECTIFIER

PIPL- 121000EPR



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12KW ELECTRO PLATING RECTIFIER

❖ FEATURES:

- Wide input supply range.
- Built in EMI filter, low ripple noise.
- Protection: Short circuit / Over load / Over voltage.
- 100% Full Load Burn in test.
- High efficiency, long life and high reliability.
- Miniature size.



❖ SPECIFICATION:

DC VOLTAGE DC CURRENT DC CURRENT TODIOA VOLTAGE ADJ.RANGE DC CURRENT RANGE CURRENT RANGE RATED POWER 12KW DISPLAY DISPLAY DISPLAY OUTPUT V&I RIPPLE & NOISE (max) VOLTAGE TOLERANGE LINE REGULATION LOAD REGULATION AC VOLTAGE RANGE FREQUENCY RANGE Protection Type: Constant Current, Recovers automatically after fault condition is removed. OVER VOLTAGE Protection Type: Hiccup Mode, Recovers automatically after fault condition is removed. WORKING TEMP. WORKING TEMP. WORKING TEMP. FORGE TO 50 PK; PK) FORGE TO 50 PK; PK) FORGE TO 50 PK; PK) FORGE TO 10 PK;	MODEL NO:		PIPL-121000EPR
OUTPUT OUTPUT OUTPUT OUTPUT RATED POWER RATED POWER RATED POWER RATED POWER DISPLAY OUTPUT V & I RIPPLE & NOISE (max) VOLTAGE TOLERANCE LINE REGULATION LOAD REGULATION LOAD REGULATION LOAD REGULATION A-V-1-1% AC VOLTAGE RANGE FREQUENCY RANGE FREQUENCY RANGE FREQUENCY RANGE FREQUENCY RANGE OVERLOAD OVER VOLTAGE PROTECTION PROTECTION OVER VOLTAGE WORKING TEMP. WORKING TEMP. WORKING HUMIDITY STORAGE TEMP. VIBRATION SAFETY & EMC SAFETY & EMC SAFETY & TANDAED SAFETY STANDAED OTHERS	ОИТРИТ	DC VOLTAGE	12VDC
OUTPUT RATED POWER 12kW OUTPUT V &		DC CURRENT	1000A
OUTPUT RATED POWER DISPLAY DISPLAY DISPLAY DISPLAY RIPPLE & NOISE (max) VOLTAGE TOLERANCE LINE REGULATION LOAD REGULATION LO		VOLTAGE ADJ.RANGE	0 TO 12VDC
DISPLAY RIPPLE & NOISE (max) RIPPLE & Rated voltage (D1+/1% LINE REGULATION A-1/1% AC VOLTAGE RANGE AC VOLTAGE RANGE AC VOLTAGE ANGE FREQUENCY RANGE FREQUENCY RANGE PROTECTION PROTECTION OVER VOLTAGE OVER VOLTAGE Protection Type : Constant Current, Recovers automatically after fault condition is removed. Protection Type : Hiccup Mode, Recovers automatically after fault condition is removed. Protection Type : Hiccup Mode, Recovers automatically after fault condition is removed. WORKING TEMP. WORKING TEMP. WORKING TEMP. WORKING TEMP. WORKING TEMP. WORKING		CURRENT RANGE	0 TO 1000A
DISPLAY CUTPUT V &		RATED POWER	12KW
VOLTAGE TOLERANCE Rated voltage Of +/-1%		DISPLAY	OUTPUT V & I
LINE REGULATION LOAD REGULATION LOAD REGULATION A VOLTAGE RANGE FREQUENCY RANGE Protection Type : Constant Current , Recovers automatically after fault condition is removed. OVER VOLTAGE Protection Type : Hiccup Mode , Recovers automatically after fault condition is removed. WORKING TEMP. WORKING TEMP. WORKING HUMDINTY STORAGE TEMPJ (-10 To 85 DegC 10 To 95% RH) HUMIDITY VIBRATION (-10 To 500 Hz , 2G , 20min / Sweep , Period - 1 Hr, Each along X,Y,Z axes.) SAFETY STANDAED Designed to meet UL60950-1 WITH STAND VOLTAGE I/P - O / P , ZKVDC , I / P - Earth , O / P - Earth ; 100MOhms / 500VDC. RESISTANCE EMI & EMC Designed to meet EN55011 / EN55022 , EN61000-4-2 ENCLOSURE PROTECTION COOLING Forced AIR Cooling 1.All parameters NOT specially mentioned are measured at Typical input , rated load and 25 Deg.c. ambient temperature. 2. Ripple&noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF & 47uF parallel capacitor. 3. Tolerance includes set up tolerance , line regulation and load regulation. 4. The power supply is considered a component which will be installed into final equipment . The final equipment must be recon formed that it still meats EMC directives.		RIPPLE & NOISE (max)	<1% Of Rated voltage
LOAD REGULATION		VOLTAGE TOLERANCE	Rated voltage Of +/-1%
INPUT AC VOLTAGE RANGE FREQUENCY RANGE FREQUENCY RANGE FFICIENCY S88% OVERLOAD Above 105% Rated Output Power Protection Type : Constant Current , Recovers automatically after fault condition is removed . OVER VOLTAGE Protection Type : Hiccup Mode , Recovers automatically after fault condition is removed . WORKING TEMP. WORKING TEMP. STORAGE TEMP/HUMIDITY VIBRATION SAFETY \$TANDAED WITH STANDAED WITH STANDAED WITH STAND VOLTAGE IP - O / P : LIP - Earth, O / P - Earth 2 KVDC ISOLATION RESISITANCE EMI & EMC Designed to meet UL60950-1 FORCE TION OTHERS OTHERS NOTE NOTE AC VOLTAGE PROTECTION FREQUENCY RANGE SOHZ Above 105% Rated Output Power Protection Type : Constant Current , Recovers automatically after fault condition is removed . 125% - 150% Rated Output Voltage. Protection Type : Hiccup Mode , Recovers automatically after fault condition is removed . 125% - 150% Rated Output Voltage. Protection Type : Hiccup Mode , Recovers automatically after fault condition is removed . 125% - 150% Rated Output Voltage. Protection Type : Hiccup Mode , Recovers automatically after fault condition is removed . 125% - 150% Rated Output Voltage. Protection Type : Hiccup Mode , Recovers automatically after fault condition is removed . 125% - 150% Rated Output Voltage. Protection Type : Hiccup Mode , Recovers automatically after fault condition is removed . 125% - 150% Rated Output Voltage. Protection Type : Hiccup Mode , Recovers automatically after fault condition is removed . 125% - 150% Rated Output Voltage. Protection Type : Hiccup Mode , Recovers automatically after fault condition is removed . 126% Output Voltage. Protection Type : Hiccup Mode , Recovers automatically after fault condition is removed . 126% Output Voltage. Protection Type : Hiccup Mode , Recovers automatically after fault condition is removed . 126% Output Voltage. Protection Type : Hiccup Mode Recovers automatically after fault condition is removed. 126% Output Voltage. Protection Type : Hiccup Mode Arecovers automatically after fa		LINE REGULATION	
PROTECTION FREQUENCY RANGE 50Hz 588%		LOAD REGULATION	<+/-1%
PROTECTION FREQUENCY RANGE 50Hz 588%	INPUT	AC VOLTAGE RANGE	415VAC (3 PHASE)
PROTECTION OVER LOAD Above 105% Rated Output Power Protection Type : Constant Current , Recovers automatically after fault condition is removed . 125% - 150% Rated Output Voltage. Protection Type : Hiccup Mode , Recovers automatically after fault condition is removed . (-5 DegC To 65DegC.) WORKING TEMP. WORKING HUMIDITY STORAGE TEMP./ HUMIDITY VIBRATION SAFETY \$ SAFET		FREQUENCY RANGE	· · · · · · · · · · · · · · · · · · ·
Protection Type : Constant Current , Recovers automatically after fault condition is removed. OVER VOLTAGE 125% - 150% Rated Output Voltage. Protection Type : Hiccup Mode , Recovers automatically after fault condition is removed. (-5 DegC To 65DegC.) WORKING HUMIDITY 20 To 90% RHNon Condensing. STORAGE TEMP./ HUMIDITY VIBRATION (-10 To 500 Hz , 2G , 20min / Sweep , Period - 1 Hr, Each along X,Y,Z axes.) SAFETY STANDAED Designed to meet UL60950-1 WITH STAND VOLTAGE I/P - 0 / P , I/P - Earth, 0 / P - Earth 2KVDC ISOLATION RESISTANCE EMI & EMC Designed to meet EN55011 / EN55022 , EN61000-4-2 ENCLOSURE PROTECTION COOLING Forced AIR Cooling 1.All parameters NOT specially mentioned are measured at Typical input , rated load and 25 Deg.c. ambient temperature. 2.Ripple&noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor. 3. Tolerance includes set up tolerance , line regulation and load regulation. 4. The power supply is considered a component which will be installed into final equipment . The final equipment must be recon formed that it still meets EMC directives.		EFFICIENCY	>88%
PROTECTION OVER VOLTAGE Protection Type : Hiccup Mode , Recovers automatically after fault condition is removed. WORKING TEMP. (.5 DegC To 65DegC.) WORKING HUMIDITY 20 To 90% RHNon Condensing. STORAGE TEMP./ HUMIDITY VIBRATION (-10 To 500 Hz , 2G , 20min / Sweep , Period - 1 Hr, Each along X,Y,Z axes.) SAFETY & EMC SAFETY STANDAED Designed to meet UL60950-1 WITH STAND VOLTAGE ISOLATION RESISITANCE EMI & EMC Designed to meet EN55011 / EN55022 , EN61000-4-2 ENCLOSURE PROTECTION COOLING 1.All parameters NOT specially mentioned are measured at Typical input , rated load and 25 Deg.c. ambient temperature. 2.Ripple&noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor. 3.Tolerance includes set up tolerance , line regulation and load regulation. 4. The power supply is considered a component which will be installed into final equipment . The final equipment must be reconformed that it still meets EMC directives.	PROTECTION	OVERLOAD	Above 105% Rated Output Power
Protection Type : Hiccup Mode , Recovers automatically after fault condition is removed. WORKING TEMP. (-5 DegC To 65DegC.) WORKING HUMIDITY 20 To 90% RHNon Condensing. STORAGE TEMP./ HUMIDITY VIBRATION (-10 To 85 DegC 10 To 95% RH) SAFETY & EMC SAFETY STANDAED Designed to meet UL60950-1 WITH STAND VOLTAGE I/P - O / P 2KVDC , I / P - Earth, O / P - Earth 2KVDC ISOLATION RESISITANCE EMI & EMC Designed to meet EN55011 / EN55022 , EN61000-4-2 ENCLOSURE PROTECTION OTHERS PROTECTION 1. All parameters NOT specially mentioned are measured at Typical input , rated load and 25 Deg. c. ambient temperature. 2. Ripple&noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor. 3. Tolerance includes set up tolerance , line regulation and load regulation. 4. The power supply is considered a component which will be installed into final equipment . The final equipment must be reconformed that it still meets EMC directives.			Protection Type : Constant Current , Recovers automatically after fault condition is removed .
### WORKING TEMP. WORKING HUMIDITY STORAGE TEMP. HUMIDITY VIBRATION SAFETY STANDAED SAFETY STANDAED WITH STAND VOLTAGE ISOLATION RESISITANCE EMI & EMC OTHERS #### COOLING 1.All parameters NOT specially mentioned are measured at Typical input , rated load and 25 Deg.c. ambient temperature. 2. Ripple&noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor. 3. Tolerance includes set up tolerance , line regulation and load regulation. 4. The power supply is considered a component which will be installed into final equipment . The final equipment must be recon formed that it still meets EMC directives.		OVER VOLTAGE	125% - 150% Rated Output Voltage.
### WORKING TEMP. WORKING HUMIDITY STORAGE TEMP. HUMIDITY VIBRATION SAFETY STANDAED SAFETY STANDAED WITH STAND VOLTAGE ISOLATION RESISITANCE EMI & EMC OTHERS #### COOLING 1.All parameters NOT specially mentioned are measured at Typical input , rated load and 25 Deg.c. ambient temperature. 2. Ripple&noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor. 3. Tolerance includes set up tolerance , line regulation and load regulation. 4. The power supply is considered a component which will be installed into final equipment . The final equipment must be recon formed that it still meets EMC directives.			Protection Type: Hiccup Mode. Recovers automatically after fault condition is removed.
STORAGE TEMP./ HUMIDITY VIBRATION SAFETY STANDAED SAFETY STANDAED Designed to meet UL60950-1 WITH STAND VOLTAGE I/P-O/P 2KVDC,I/P-Earth, O/P-Earth 2KVDC ISOLATION RESISITANCE EMI & EMC Designed to meet EN55011 / EN55022, EN61000-4-2 ENCLOSURE PROTECTION THERS COOLING 1.All parameters NOT specially mentioned are measured at Typical input, rated load and 25 Deg.c. ambient temperature. 2.Ripple&noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor. 3. Tolerance includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into final equipment. The final equipment must be recon formed that it still meets EMC directives.		WORKING TEMP.	
SAFETY & EMC SAFETY STANDAED SAFETY STANDAED Designed to meet UL60950-1 WITH STAND VOLTAGE I/P-O/P 2KVDC, I/P- Earth, O/P-Earth 2KVDC ISOLATION RESISTANCE EMI & EMC Designed to meet EN55011 / EN55022, EN61000-4-2 ENCLOSURE PROTECTION COOLING 1.All parameters NOT specially mentioned are measured at Typical input, rated load and 25 Deg.c. ambient temperature. 2.Ripple&noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor. 3.Tolerance includes set up tolerance, line regulation and load regulation. 4.The power supply is considered a component which will be installed into final equipment. The final equipment must be recon formed that it still meets EMC directives.	ENVIRONMENT	WORKING HUMIDITY	20 To 90% RHNon Condensing.
SAFETY & EMC SAFETY STANDAED Designed to meet UL60950-1 WITH STAND VOLTAGE I/P-O/P 2KVDC, I/P- Earth, O/P-Earth 2KVDC ISOLATION RESISITANCE EMI & EMC Designed to meet EN55011 / EN55022, EN61000-4-2 ENCLOSURE PROTECTION COOLING Forced AIR Cooling 1.All parameters NOT specially mentioned are measured at Typical input, rated load and 25 Deg.c. ambient temperature. 2.Ripple&noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor. 3. Tolerance includes set up tolerance, line regulation and load regulation. 4.The power supply is considered a component which will be installed into final equipment. The final equipment must be recon formed that it still meets EMC directives.			(-10 To 85 DegC 10 To 95% RH)
SAFETY & EMC WITH STAND VOLTAGE ISOLATION RESISTANCE EMI & EMC Designed to meet EN55011 / EN55022 , EN61000-4-2 ENCLOSURE PROTECTION COOLING 1.All parameters NOT specially mentioned are measured at Typical input , rated load and 25 Deg.c. ambient temperature. 2.Ripple&noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor. 3. Tolerance includes set up tolerance , line regulation and load regulation. 4.The power supply is considered a component which will be installed into final equipment . The final equipment must be recon formed that it still meets EMC directives.		VIBRATION	
SAFETY & EMC ISOLATION RESISTANCE Designed to meet EN55011 / EN55022, EN61000-4-2 ENCLOSURE PROTECTION COOLING 1. All parameters NOT specially mentioned are measured at Typical input, rated load and 25 Deg.c. ambient temperature. 2. Ripple&noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor. 3. Tolerance includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into final equipment. The final equipment must be recon formed that it still meets EMC directives.	SAFETY & EMC	SAFETY STANDAED	Designed to meet UL60950-1
RESISITANCE EMI & EMC Designed to meet EN55011 / EN55022 , EN61000-4-2 ENCLOSURE PROTECTION COOLING 1. All parameters NOT specially mentioned are measured at Typical input , rated load and 25 Deg.c. ambient temperature. 2. Ripple&noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor. 3. Tolerance includes set up tolerance , line regulation and load regulation. 4. The power supply is considered a component which will be installed into final equipment . The final equipment must be recon formed that it still meets EMC directives.		WITH STAND VOLTAGE	
OTHERS ENCLOSURE PROTECTION COOLING Forced AIR Cooling 1.All parameters NOT specially mentioned are measured at Typical input, rated load and 25 Deg.c. ambient temperature. 2.Ripple&noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor. NOTE 3.Tolerance includes set up tolerance, line regulation and load regulation. 4.The power supply is considered a component which will be installed into final equipment. The final equipment must be recon formed that it still meets EMC directives.			I / P - O / P,I / P- Earth, O / P-Earth : 100MOhms / 500VDC.
OTHERS COOLING Forced AIR Cooling 1.All parameters NOT specially mentioned are measured at Typical input, rated load and 25 Deg.c. ambient temperature. 2.Ripple&noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor. 3.Tolerance includes set up tolerance, line regulation and load regulation. 4.The power supply is considered a component which will be installed into final equipment. The final equipment must be recon formed that it still meets EMC directives.		EMI & EMC	Designed to meet EN55011 / EN55022 , EN61000-4-2
1.All parameters NOT specially mentioned are measured at Typical input, rated load and 25 Deg.c. ambient temperature. 2.Ripple&noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor. NOTE 3.Tolerance includes set up tolerance, line regulation and load regulation. 4.The power supply is considered a component which will be installed into final equipment. The final equipment must be recon formed that it still meets EMC directives.			IP-21
2.Ripple&noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor. NOTE 3.Tolerance includes set up tolerance , line regulation and load regulation. 4.The power supply is considered a component which will be installed into final equipment . The final equipment must be recon formed that it still meets EMC directives.	OTHERS	COOLING	Forced AIR Cooling
2.5-postiodation dire edujoet to entange was east prior notice and to constant improvement in design a technology.	NOTE	2.Ripple&noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor. 3.Tolerance includes set up tolerance, line regulation and load regulation. 4.The power supply is considered a component which will be installed into final equipment. The final equipment must be recon	

SMPS IDC DC Converters I Adapters I Electro Plating Rectifier I POE SMPS I Battery chargers I DC AC Converter DC Regulator Power supply I LED Driver I Inverter I CVT I Servo controlled Voltage Stabilizer I Transformer