

New

iPOWERPRO™

INTELLIGENT POWER PROTECTION



Total main panel surge protection with two dedicated circuits for isolating high-value electronics

An industry first. Leveler has combined the capabilities of its own patented high-energy transformerless filtration technology with Ferraz Shawmut's leading Surge-Trap® product into one unbeatable electrical power solution package that offers:

Unsurpassed Power Protection

- Superior TVSS protection for an entire 240 VAC Split Phase Panel. No undesirable voltage or current passes into your system
- Advanced power purification technology that protects two, 15 amp circuits for use with high-value electronics
- Complete resistance to harmful surge current
- Built to industrial standards

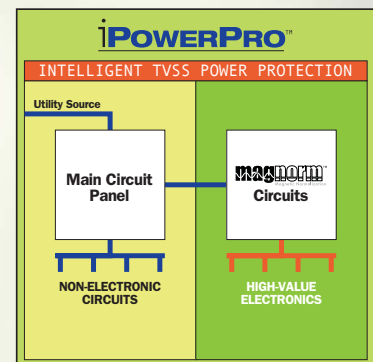
Enhanced Power Performance

MagNorm™ – Leveler's power purification technology – provides:

- **Ultra-high frequency filtration:** 100Hz to > 2 GHz
- **Power factor correction** of each circuit = more available power for large component demands
- **Electrical noise removal:** eliminates unwanted noise on every outlet
- **Harmonics reduction:** prevents amplifier and power supply noise from returning to the electrical supply
- **In-rush current blocking** = quiet power-ups, reduced heat stress, eliminates speaker "popping"

Worry-Free Applications

Residential Main Panel
Home Theater
Offices
Data Centers
Restaurants
Salons
Medical and Diagnostic
Manufacturing
Communications
Alternative Energy
Recreational Vehicles
Houseboats and Yachts



Product Specifications

Model: PS240SP30A

Designed and engineered by Leveler
Manufactured exclusively by Ferraz Shawmut®

Description:

iPowerPro™ TVSS and Filtration Panel,
240 Split Phase 120VAC, 30 Amp

Enclosure:

NEMA 1 (Type 1) steel construction for indoor installation

Electrical Features:

Input Connection #10 AWG Copper Only
Output Connection #12 - #14 AWG Copper Only
PE (Earth) Lug #1/0 - #14 AWG
Indicators Visual - LEDs for Power, TVSS Status, Maintenance Required
Audio - buzzer with silencer

Electrical Ratings:

Input Voltage 120/240 Split Phase
Output Voltage 110 - 120VAC Single Phase
Input Current (Amps) 30 Amps RMS
VA Rating 7200
Nominal Frequency 50 to 60 Hz
Max. Continuous Operating Voltage 150/275 VAC
EMI/RFI Emissions None (Faraday Caged Tested),
Performs EMI/RFI Suppression
Short Circuit Current Rating (SCCR) 10kA

Performance:

Electrical Mode Protection Patented Full-Path Protection, bi-directional filtration, all modes
VPR (Voltage Protect. Rat.) 330 Volts L-N, L-G, N-G
Harmonics Removal 40% typical reduction of current THD
Power Factor Correction 30% average improvement
EMI/RFI Filtration Each Path (Line, Neutral, Ground) bi-directionally filtered (Patented)
Noise Attenuation Over 100 dB reduction on Line and Neutral,
over 60 dB on Ground; Effective Range of 100 Hz - > 2 GHz
Electromagnetic Pulse Reduction Blocks all unwanted current from pulses entering Line, Neutral, and Ground
Surge Joule Rating Leveler's patented MagNorm technology manages surge energy, therefore the Joule rating is unlimited.
Suppression Strength < 1 Event VAT (Event VAT = VA of all peak-to-peak energy during surge event); for comparison most surge suppressors allow >30,000 Event VAT Normal Mode to pass to load.
Surge Waveforms IEC Combination Wave-Open-Circuit 1.2/50 and Combination Wave-Short-Circuit 8/20,
Injected under Load 100kHz Ringwave per IEC 1000-4-12 ANSI C62.41
Actual Clamping Voltage Line-Neutral Voltage **120V RMS +/- 10V**
during Surge (typical) Neutral-Ground Voltage **0V RMS +/- 10V**
and under load Surge Line Current **less than 0.0001 Amps over RMS**
Noise & Surge Rejection-Isolation With Unit under power and an attached load under power (typical customer use), an ANSI C62.41 Cat. A pulse applied under all modes at the input, the voltage noise output will be less than 10 Volts for one microsecond, normal mode. The current noise is less than 18 amps for one microsecond, normal mode.
Surge Withstand Rating - Severe Performance Test - 6000 Volts, 500 Amps Cat. A C62.41-1991 Ring-wave surge (at 90 degree
MagNorm™ Performance point of input sinewave, positive charge, L1,L2/PE) injected every 45 seconds with powered loads in place for a total of over 1,260 injections in a 24 hour period - no degradation of device, loads or output performance. (see Noise and Surge Rejection-Isolation)

Physical:

Mounting Style Flush mounting between 16" on-center 2" x 4" studs or surface mounting
Product Weight 80 lbs.
Dimensions Height Width Depth
30 inches 14.5 inches 4.0 inches

Notice: All specifications subject to change without notice.



Environment:

Storage Temp. 39° to 90° F / 4° to 32° C
Operating Temp. 32° to 104° F / 0° to 40° C
Moisture (relative humidity) 0 to 95% non-condensing

NRTL Safety Listing:

Testing Laboratories UL 1449, 3rd edition, CSA 22.2
SPD Type 2
UL 1283, 5th edition

Operating Temperature (Surface):

No Load Ambient* Ambient*
Half Load Ambient* Ambient*
Full Load 89° F 26° C

