

## Features

- NEMA 4, IP 65, Highly Durable, Weatherproof Metal Cabinet
- Protection for Sensitive Equipment
- Absorbs Energy from Transients and Electrical Disturbances
- Acts in Nanoseconds
- TMOV (Thermally Protected Metal Oxide Varistors) Technology
- High Frequency Noise Filtering
- Derivative Parallel Connection (Does not Interrupt Load Operation)
- Parallel To Increase Capacity

## Solves the following power quality issues

- Voltage Spikes
- Attenuates (EMI & RF) High-frequency Electrical Noise

## Applications

- Main, Secondary and Load Centers
- UPS, Regulators, and Emergency Plants
- Data Centers
- Communication Centers
- Laboratories and Medical Equipment
- Audio and Video Recording Studios
- Sensitive and Delicate Loads
- Industrial and Commercial use

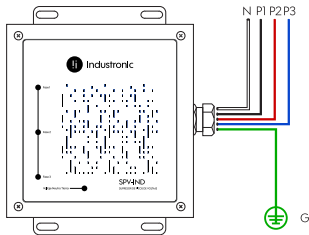
## Optional

- Custom design



# SPV-IND 3000 Specs

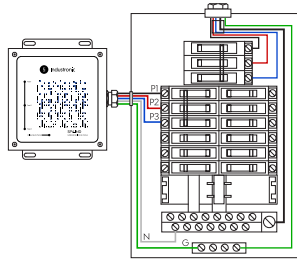
## • SPV Wiring



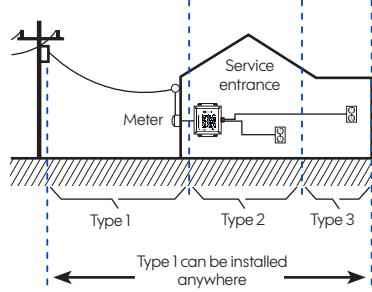
P1= Phase 1= Black Cable  
P2= Phase 2= Red Cable  
P3= Phase 3= Blue Cable

N= Neutral= White Cable  
T= Ground= Green Cable

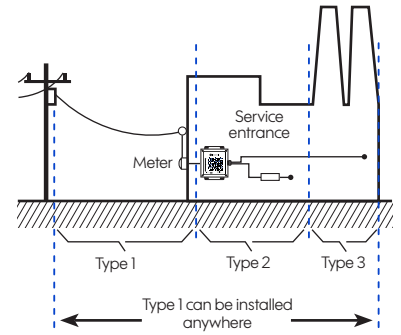
## • Wiring to board



## • House Connection



## • Commercial Building Connection



| Model SPV-IND                               | 3050   | 3100 | 3200                            | 3400 | 3100   | 3200 | 3400                            | 3530  |
|---|--|------|---------------------------------|------|--|------|---------------------------------|-------|
| <b>Electrical</b>                           |  |      |                                 |      |  |      |                                 |       |
| Capacity (kA)                               | 50   | 100  | 200                             | 400  | 100  | 200  | 400                             | 530   |
| Nominal Voltage                             | 110 / 190, 120 / 208, 127 / 220  |      |                                 |      | 254 / 440, 266 / 460, 277 / 480                        |      |                                 |       |
| Phases                                      | 3  |      |                                 |      |  |      |                                 |       |
| Configuration                               | Three phase star (4 wires + ground)  |      |                                 |      |  |      |                                 |       |
| Type / Recommended application class        | Type 1 and Type 2  |      |                                 |      |  |      |                                 |       |
| Short Circuit Current Capacity (SCCR)       | 200 kA   |      |                                 |      |  |      |                                 |       |
| Nominal Discharge Current (In)              | 20 kA  |      |                                 |      |  |      |                                 |       |
| Frequency (Hz)                              | 50 / 60  |      |                                 |      |  |      |                                 |       |
| Response time                               | 1 nanosecond   |      |                                 |      |  |      |                                 |       |
| Protection modes                            | 10 modes, P1-N, P1-G, P2-N, P2-T, P3-N, P3-G, N-G, P1-P2, P2-P3, P1-P3         |      |                                 |      |  |      |                                 |       |
| EMI / RFI Filtering                         | Up to 50 dB from 10 kHz to 100 MHz   |      |                                 |      |  |      |                                 |       |
| Voltage Protection (VPR)                    | 700 V (P-N), 700 V (P-G), 700 V (N-G), 1400 V (P-P)                            |      |                                 |      | 1200 V (P-N), 1200 V (P-G), 1200 V (N-G), 2400 V (P-P) |      |                                 |       |
| Maximum Continuous Operation Voltage (MCOV) | 150 V (P-N, N-G, P-G)  |      |                                 |      | 385 V (P-N, N-G, P-G)                                  |      |                                 |       |
| Protection current per phase (kA)           | 26   | 40   | 80                              | 150  | 40   | 80   | 150                             | 300   |
| Three-Phase protection current (kA)         | 50   | 100  | 200                             | 400  | 100  | 200  | 400                             | 530   |
| Energy capacity (J)                         | 640  | 1280 | 2560                            | 4960 | 1955   | 3910 | 7735                            | 10030 |
| <b>Mechanical</b>                           |  |      |                                 |      |  |      |                                 |       |
| Cabinet type                                | NEMA 4, IP 65, 16 caliber galvanized steel with baked epoxy coating in black   |      |                                 |      |  |      |                                 |       |
| Dimensions, height x width x depth (mm)     | 260 x 210 x 90   |      |                                 |      |  |      |                                 |       |
| Standard weight (kgs)                       | 2.3  | 2.4  | 2.6                             | 2.4  | 2.6  | 2.7  |                                 |       |
| Connection type                             | 5 flexible cables caliber 10 AWG   |      | 5 flexible cables caliber 8 AWG |      | 5 flexible cables caliber 10 AWG                       |      | 5 flexible cables caliber 8 AWG |       |
| <b>Physical</b>                             |  |      |                                 |      |  |      |                                 |       |
| Operational altitude (m s.n.m.)             | 5,000  |      |                                 |      |  |      |                                 |       |
| Operational temperature (°C)                | -40 ~ 70   |      |                                 |      |  |      |                                 |       |
| LED indicator activation time               | < 1 second   |      |                                 |      |  |      |                                 |       |
| Relative humidity                           | from 5% to 95% without condensation  |      |                                 |      |  |      |                                 |       |
| <b>Applicable characteristics</b>           |  |      |                                 |      |  |      |                                 |       |
| Average efficiency                          | 100%   |      |                                 |      |  |      |                                 |       |
| Harmonic distortion                         | Does NOT add harmonic distortion to the line                                   |      |                                 |      |  |      |                                 |       |
| Anti-ignition system                        | Thermostable polymer encapsulated varistors & smoke proof sealed metal cabinet |      |                                 |      |  |      |                                 |       |
| LED Indicator                               | Phase failure, phase loss & current between neutral and ground                 |      |                                 |      |  |      |                                 |       |
| Audible indicator                           | In case of failure or phase loss   |      |                                 |      |  |      |                                 |       |
| Remote monitoring                           | Dry contact signal (NA, NC, COM)   |      |                                 |      |  |      |                                 |       |
| Suggested switch type                       | 3 poles, 30 A, 250 Vca   |      |                                 |      | 3 poles, 30 A, 600 Vca                                 |      |                                 |       |
| Certifications                              | Complies with: NOM, UL 1449 3rd Edition; components comply to UL94V-0          |      |                                 |      |  |      |                                 |       |

The specifications are subject to changes and modifications without prior notice, due to our commitment of continuous improvement of reliability, design and functionality of our products