

AC Power Line Conditioners

Power Conditioning Protection against Voltage Fluctuations and Line Disturbances

PCV Indoor AC Power Conditioners are recommended for severe environments where the input voltage varies widely and a highly durable *'install and forget'* Maintenance Free solution is required.

Designed to deliver a precisely regulated clean AC power output, thereby removing the need for a dedicated clean supply feed, **PCV Series AC Power Conditioners** are highly compact in size and offer full isolation with a neutral-to-ground bonding, excellent surge and lightning protection, unsurpassable noise filtering, high efficiency outstanding reliability.

Solid state in design, with no moving parts, **PCV AC Line Conditioners** are able to withstand high instantaneous overloads. Their unique super-isolation design, with it's built in ride through capability, ensures that in the event of a short break in supply of less than for 3msecs, output will still be maintained - a feature exceptionally useful for applications where there are frequent short breaks or extremely sever voltage dips in the incoming mains supply.

Applications:

- Computers
- Medical Equipment
- Electronics Equipment
- Testing Equipment
- Laboratory Equipment
- POS Terminals
- Process Control Systems
- TV/Radio Broadcasting Stations
- Security Systems
- Photo Processing Systems
- Marine Navigation Systems

Available Standard Models:

High Voltage (H) 50 / 60 Hz Models
220V; 230V or 240V (Single Phase)

Low Voltage (L) 60 Hz Models
100V; 110V or 120V (Single Phase)

Other voltages available on individual request / quotation.



PCV SERIES

AC POWER CONDITIONERS

SINGLE PHASE

0.5kVA to 5kVA



Features:

- **Wide Range of AC Power Conditioners**
Single Phase up to 5kVA
- **Input Swing Range**
Input Swing -20% +15% (±45%)
- **Output Voltage Regulation**
Output Voltage Accuracy ± 1% (± 5%)
- **Spike Suppression**
Protects loads against high-energy surges and lightning strikes
- **Shielded Isolation Transformer**
Provides 110 db of common-mode noise attenuation and neutral ground bonding
- **Energy Storage**
(RIDE THROUGH) No loss of output for input power losses for up to 3msec
- **High Efficiency**
Better than 90%
- **Input Circuit Breaker**
Standard on all models
- **Compliance with International Standards**
BS EN50081-1;2/IEC 61000-4-3;4
BS EN5490/IEC 60529
- **CE Conformity**
EN55022, EN50082-2, ENV50140-1
- **MTBF**
25 years and above
- **Standard Warranty**
3 Years / 36 Months

AC Power Line Conditioners

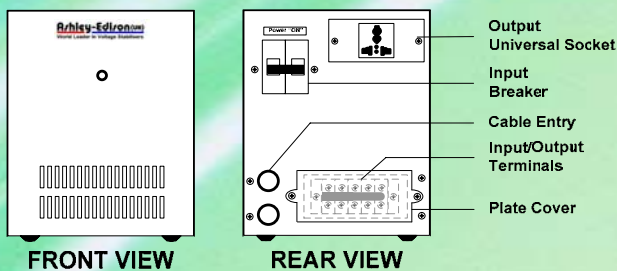
Technical Specifications

Input Swing	-20% +15% ($\pm 45\%$) Single Phase, 2 Wire
Output Voltage Model: PCV-H Model: PCV-L	220V, 230V or 240V (Customer to specify) 100V, 110V or 120V (Customer to specify)
Output Voltage Accuracy	$\pm 1\%$ or ($\pm 5\%$)
Frequency	50 Hz or 60Hz (customer to specify)
Response Time	<30ms
Efficiency	90%
Surge ratings	200% of rated load for 10 seconds 500% of rated load for 10msec
Surge Suppression	Protect loads against high-energy Spikes and transient voltage meets ANSI/IEEE and IEC standards
Noise Attenuation Common-mode noise Normal-mode noise	110db@100khz 60db@100khz

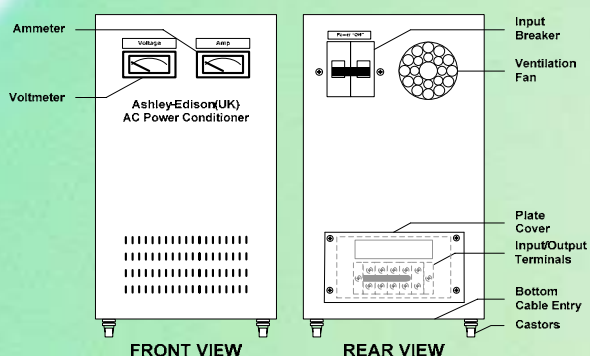
Energy Storage	(RIDE THROUGH) No loss of output for input power losses for up to 3msec
Total Harmonic Distortion	< 1%
Environment	Temperature range -15 to 50 °C. Derate by 2% for each additional °C Up to max 60 °C. Suitable for indoor tropical use 95% RH (non-condensing). Maximum altitude 1000m. Derate by 2.5% for each additional 500m.
Construction	Enclosures to IP20, BS EN5490 / IEC 60529, NEMA 1
Conformance	BS EN50081-1;2 / IEC 61000-4-3;4
CE Conformity	EN55022, EN50082-2, ENV50140-1
Standard Warranty	Three Years / 36 Months from date of supply
Standard Feature	0.5KVA ~ 1KVA Input Circuit Breaker Universal Output Socket 2KVA ~ 5KVA Input Circuit Breaker Voltmeter / Ammeter



PCV-05H to PCV-1H & PCV-05L to PCV-1L



PCV-2H to PCV-5H & PCV-2L to PCV-5L



Single Phase Model: PCV-H-S45-50Hz

Model:	Rating KVA	Amps @ 220V	Amps @ 230V	Amps @ 240V	Dimensions (mm) W x H x D	Weight (Kgs)
PCV-05H-50-S45	0.5	2.25	2.15	2.1	210 x 260 x 420	26
PCV-1H-50-S45	1	4.5	4.3	4.2	210 x 260 x 420	39
PCV-2H-50-S45	2	9.1	8.7	8.3	270 x 460 x 490	66
PCV-3H-50-S45	3	13.6	13	12.5	270 x 460 x 490	89
PCV-5H-50-S45	5	23	22	21	270 x 460 x 490	112

Single Phase Model: PCV-H-S45-60Hz

Model:	Rating KVA	Amps @ 220V	Amps @ 230V	Amps @ 240V	Dimensions (mm) W x H x D	Weight (Kgs)
PCV-05H-60-S45	0.5	2.25	2.15	2.1	210 x 260 x 420	26
PCV-1H-60-S45	1	4.5	4.3	4.2	210 x 260 x 420	39
PCV-2H-60-S45	2	9.1	8.7	8.3	270 x 460 x 490	66
PCV-3H-60-S45	3	13.6	13	12.5	270 x 460 x 490	89
PCV-5H-60-S45	5	23	22	21	270 x 460 x 490	112

Model PCV 05H to 1H are supplied with Input Breaker, Output Universal Socket.

Model PCV 2H to 5H are supplied with Input Breaker, Input/Output Terminals, Output Voltmeter, / Ammeter, and Castors.

Single Phase Model: PCV-L-S45-60Hz

Model:	Rating KVA	Amps @ 100V	Amps @ 110V	Amps @ 120V	Dimensions (mm) W x H x D	Weight (Kgs)
PCV-05L-60-S45	0.5	5	4.5	4.15	210 x 260 x 420	24
PCV-1L-60-S45	1	10	9	8.3	210 x 260 x 420	34
PCV-2L-60-S45	2	20	18	16.6	270 x 460 x 490	58
PCV-3L-60-S45	3	30	27	25	270 x 460 x 490	75
PCV-5L-60-S45	5	50	46	42	270 x 460 x 490	101

Model PCV 05L to 1L are supplied with Input Breaker, Output Universal Socket.

Model PCV 2L to 5L are supplied with Input Breaker, Input/Output Terminals, Duplex Socket, Output Voltmeter, / Ammeter, and Castors.