

AC Power Line Conditioner

Power Conditioning Protection against Voltage Fluctuations and Line Disturbances

AC Mains voltage fluctuations, common mode noise, and high energy transients causes many equipment to behave erratic and malfunction. Some equipment even breakdown because of these problems. Failure to keep this voltage stable results in more costly repairs.

Ashley-Edison's AC Power Line Conditioners are designed to maintain the mains voltage constant all the time. Their electronic amplifier controls will electronically correct the mains voltage should the mains voltage goes high or low. They are characterised by the high efficiency and are completely unaffected by power factor, load and frequency variations. They can withstand high instantaneous overloads and does not create any magnetic interference. Compact in size, quiet in operation, these conditioners are very suitable for indoor use and can be located near to equipment without causing any magnetic disturbances to the load equipment.

Soft Switch-ON feature will ensure that the Voltage Stabiliser is at its minimum upon switch-on before it commence full stabilization. Lack of this feature may cause high output voltage surge in stabiliser.

PCS SERIES SINGLE PHASE 1KVA ~ 50KVA



Models:

High Voltage (H) Models

220V; 230V or 240V (Single Phase)

Low Voltage (L) Models

100V; 110V or 120V (Single Phase)

Features:

- **Wide Range of Voltage Stabiliser**
Single Phase Up to 50KVA
- **Input Swing Range**
Input Swing Range Available from $\pm 15\%$, $\pm 20\%$, $\pm 25\%$, $\pm 30\%$, (To Specify)
- **Output Voltage Regulation**
Output Voltage Accuracy $\pm 1\%$
- **Spike Suppression**
Protects loads against high-energy surges and lightning strikes
- **Shielded Isolation Transformer**
Provide 120 db of common-mode noise attenuation and neutral ground bonding
- **High Efficiency**
Better than 98%
- **Standard Features**
*Input Circuit Breaker
Over/low Voltage Protection
Bypass Control Switch
Voltmeter*
- **Optional Accessories**
*Output circuit breaker
Lightning arrester
Manual bypass switch
Ammeter*
- **Compliance with International Standards**
*BS EN50081-1;2/IEC 61000-4-3;4
BS EN5490/IEC 60529*
- **CE Conformity**
EN55022, EN50082-2, ENV50140-1
- **Warranty**

Applications:

- Computers
- Medical Equipment
- Electronics Equipment
- Testing Equipment
- Laboratory Equipment
- POS Terminals
- Process Control Systems
- TV/Radio Broadcasting Stations
- Elevators
- Audio/Video Systems
- Security Systems
- Production Line
- CNC Equipment
- SMT Equipment



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Technical Specifications

Input Voltage	230VAC \pm 15% Single Phase	Total Harmonic Distortion	Less than 1%
Output Voltage	Presettable for any voltage between 220V; 230V or 240V.	Soft Switch-ON	Ensure that the output voltage is at its minimum upon Switch-On before it commence full stabilization
Output Voltage Accuracy	\pm 1%	Environment	Temperature range -15 to 45 °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.
Frequency	47 – 65 Hz	Construction	Enclosures to IP20, BS EN5490 / IEC 60529
Response Time	<1.5ms	Conformance	BS EN50081-1;2 / IEC 61000-4-3;4
Correction Time	A 10% supply variation will be corrected to within 2.5% in 0.6 seconds.	CE Conformity	EN55022, EN50082-2, ENV50140-1
Efficiency	98%	Warranty	Two Years
Power Factor	Any lagging to 0.95 leading	Standard Feature	Input circuit breaker Bypass control switch Over/Low voltage trip protection Voltmeter
Surge ratings	10 x max current rating for 2 seconds 3 x max current rating for 1 minutes 2 x max current rating for 5 minutes	Optional Accessories	Output circuit breaker Bypass switch Lighting Arrestors
Surge Suppression	Protect loads against high-energy spikes and transient voltage.		
Noise Attenuation			
Common-mode noise	120db@100khz		
Normal-mode noise	60db@100khz		

Note: Optional accessories added may affect dimension, subject to confirmation.

Single Phase Model: PCS-H-S15

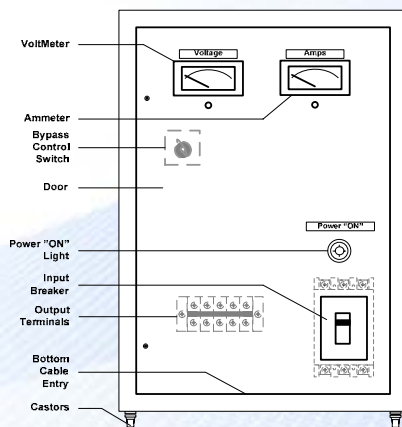
Model:	Rating KVA	Amps @ 220V	Amps @ 230V	Amps @ 240V	Dimensions (mm) W x H x D	Weight (Kgs)
PCS 1H-S15	1	4.5	4.3	4.2	210 x 630 x 420	44
PCS 2H-S15	2	9.1	8.7	8.3	210 x 630 x 420	45
PCS 3H-S15	3	13.6	13	12.5	210 x 630 x 420	46
PCS 4H-S15	4	18.2	17.4	16.7	210 x 630 x 420	62
PCS 5H-S15	5	23	22	21	210 x 630 x 420	63
PCS 8H-S15	8	36	35	33	210 x 630 x 420	79
PCS 10H-S15	10	45	44	42	210 x 630 x 420	89
PCS 15H-S15	15	68	65	63	400 x 580 x 500	121
PCS 20H-S15	20	91	87	83	500 x 700 x 600	168
PCS 30H-S15	30	136	130	125	500 x 700 x 600	251
PCS 40H-S15	40	182	174	167	500 x 900 x 600	270
PCS 50H-S15	50	227	217	208	500 x 1170 x 600	290

Model PCS 1H – 10H are supplied with Input Breaker, Input/Output Terminals, Output Voltmeter, Universal Socket, Bypass Control Switch and Castors.

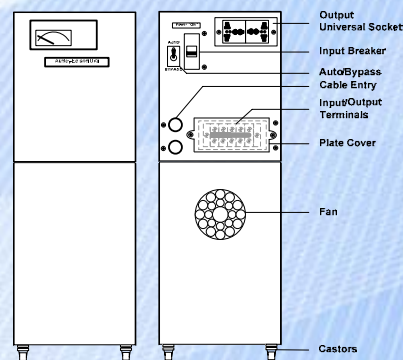
Model PCS 15H – 50H are supplied with Input Breaker, Input/Output Terminals, Output Voltmeter, Ammeter, Bypass

- Note: 1) 120V options available on order
2) Special voltage configurations available on order
3) Higher KVA rating options available on order

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PCS-15H ~ PCS-50H



PCS-1H ~ SES-10H

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