

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 THREE PHASE 6KVA ~ 200KVA



Models:

High Voltage (H) Models

380/220V; 400/230V or 415/240V
(Three Phase)

Low Voltage (L) Models

200/115V; 208/120V or 220/127V
(Three Phase)

Features:

- **Wide Range of Voltage Stabiliser**
Three Phase Up to 200KVA
- **Input Swing Range**
Input Swing Range Available from $\pm 15\%$, $\pm 20\%$, $\pm 25\%$, $\pm 30\%$, $\pm 35\%$, (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%
- **Independent Phase Control Circuit**
Sensing on all Three Individual Phases
- **Soft Switch-ON**
Ensure that the Voltage Stabiliser is at its minimum before it commence full stabilization
- **Standard Protection Features**
*Input circuit breaker
Over/low voltage protection
Phase-failure protection
Bypass control switch
Voltmeter / Selector switch (Internal)*
- **Optional Accessories**
*Output circuit breaker
Ammeter/selector switch
Frequency meter
Manual maintenance bypass switch
Lightning arrester*
- **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**
2 Years

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	400/230VAC \pm 15% 3 Phase 4 Wire (3P+N)
Output Voltage	Presetable for any voltage between 380/220V; 400/230V or 415/240V
Output Voltage Accuracy	\pm 1%
Frequency	47 – 65 Hz
Response Time	<1.5ms
Correction Time	A 10% supply variation will be corrected to within 2.5% in 0.6 seconds.
Efficiency	98%
Power Factor	Any lagging to 0.95 leading
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
Surge Suppression	Protect loads against high-energy spikes and transient voltage.
Shielded Isolation Transformer	
Noise Attenuation	
Common-mode noise	120db@100khz
Normal-mode noise	60db@100khz
Total Harmonic Distortion	<1%

Independent Phase Control	Maintain each phase voltage stable irrespective of load unbalance, even up to 100% load unbalance.
Soft Switch-ON	Ensure that the output voltage is at its minimum upon Switch-On before it commence full stabilization
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.
Standard Features	Input circuit breaker Over/Low voltage protection Phase failure protection Bypass control switch Voltmeter/selector switch (internal)
Construction	Enclosures to IP20, BS EN5490 / IEC 60529
EMC Conformance	BS EN50081-1;2 / IEC 61000-4-3;4
CE Conformity	EN55022, EN50082-2, ENV50140-1
Optional Accessories	Output circuit breaker Ammeter/selector switch Frequency meter Lightning arrester Manual maintenance bypass switch
Note: Optional accessories added may affect dimension, subject to confirmation.	
Note: 1) 208V 3Phase 3Wire or 4Wire options available on order 2) Special voltage configurations available on order 3) Higher KVA rating options available on order	



CE

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Three Phase Model: PCS-H-3P-S15

Model:	Rating KVA	Amps @ 380V	Amps @ 400V	Amps @ 415V	Dimensions (mm) W x H x D	Weight (Kgs)
PCS 6H-3P-S15	6	9.1	8.7	8.3	300 x 920 x 590	165
PCS 10H-3P-S15	10	15.2	14.4	13.9	300 x 920 x 590	167
PCS 15H-3P-S15	15	22.8	21.6	20.9	300 x 920 x 590	184
PCS 20H-3P-S15	20	30.4	28.9	27.8	300 x 920 x 590	203
PCS 25H-3P-S15	25	38	36.1	35	300 x 920 x 590	229
PCS 30H-3P-S15	30	46	43	42	300 x 920 x 590	230
PCS 35H-3P-S15	35	53	51	49	380 x 1240 x 780	362
PCS 40H-3P-S15	40	61	58	56	380 x 1240 x 780	363
PCS 45H-3P-S15	45	68	65	63	380 x 1240 x 780	364
PCS 50H-3P-S15	50	76	72	70	380 x 1240 x 780	416
PCS 55H-3P-S15	55	84	79	77	380 x 1240 x 780	417
PCS 60H-3P-S15	60	91	87	83	380 x 1240 x 780	418
PCS 75H-3P-S15	75	114	108	104	580 x 1300 x 1000	520
PCS 80H-3P-S15	80	122	115	111	580 x 1300 x 1000	617
PCS 90H-3P-S15	90	137	130	125	580 x 1300 x 1000	619
PCS 100H-3P-S15	100	152	144	139	580 x 1300 x 1000	620
PCS 120H-3P-S15	120	182	173	167	1280 x 1700 x 820	800
PCS 150H-3P-S15	150	228	216	209	1280 x 1700 x 820	965
PCS 180H-3P-S15	180	273	260	250	1280 x 1700 x 820	1120
PCS 200H-3P-S15	200	304	289	278	1280 x 1700 x 820	1400

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