

Outdoor AC Power Line Conditioner

Power Conditioning Protection against Voltage Fluctuations and Line Disturbances

OPCS SERIES THREE PHASE 6KVA ~ 200KVA

Cost Efficient Voltage Stabilisation Solutions with Fast Speed of Response and High Output Voltage Accuracy

AC mains voltage fluctuations can cause equipment to behave erratically and malfunction. Some systems may even break down due to these fluctuations, noise or spikes. Failure to ensure the incoming mains voltage is stable and clean, can often result in costly equipment repairs.

Ashley-Edison, utilizing an **Advanced Digital Controller** for our Electromechanical / Electronic Servo **OPCS Series** Outdoor AC Power Line Conditioner, are designed to ensure that, should the incoming mains voltage drift high or low, the output voltage remain continuously constant. Characterised by high efficiency, they are completely unaffected by Power Factor, Load and Frequency variations. They are capable of withstanding high instantaneous overloads and do not generate any magnetic interference. Compact in size, quiet in operation, these Power Line Conditioners are suitable for Outdoor use and may be located near to sensitive equipment.

Our AC Power Line Conditioners are equipped with **Bypass Control Switches**. These switches can be activated when required.

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



Utilizing Advanced Digital Controller



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 AC Power Line Conditioner**
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

- Communication Systems
- TV/Radio Broadcasting Stations
- Security Systems
- Communication Stations
- Lighting Systems
- Golf Course Lighting Systems
- Perimeter Lighting



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Technical Specifications

Input Swing Range (To Specify)	±15%, ±20%, ±25%, ±30%, ±35%, 3 Phase 4 Wire (3P+N)	Total Harmonic Distortion	<1%
Output Voltage	Pre-settable for any voltage between 380/220V; 400/230V or 415/240V	Independent Phase Control	Maintain each phase voltage stable irrespective of load unbalance, even up to 100% load unbalance
Output Voltage Accuracy	± 1%	Soft Switch-ON	Ensure that the output voltage is at its minimum upon Switch-On before it commence full stabilization
Frequency	47 – 65 Hz	Environment	Temperature range –15 to 50 °C. Derate by 2% for each additional °C Up to max 65 °C . Suitable for indoor tropical use 95% RH (non-condensing). Maximum altitude 1000m.Derate by 2.5% for each additional 500m
Response Time	<1.5ms	Standard Features	Input circuit breaker Over/Low voltage protection Phase failure protection Bypass control switch Voltmeter/selector switch
Correction Time	A 10% supply variation will be corrected to within 2.5% in 0.6 seconds	Construction	Enclosures to IP54, BS EN5490 / IEC 60529
Efficiency	98%	EMC Conformance	BS EN50081-1;2 / IEC 61000-4-3;4
Power Factor	Any lagging to 0.95 leading	CE Conformity	EN55022, EN50082-2, ENV50140-1
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 Ammeter/selector switch Frequency meter Manual maintenance bypass switch
Surge Suppression	Protect loads against high-energy spikes and transient voltage.	Note: Optional accessories added may affect dimension, subject to confirmation.	
Surge Arrester	40KA at 415V AC Class III (IEC 61643-1:1998-02, EN 61643-11:2001)	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	
Shielded Isolation Transformer Noise Attenuation Common-mode noise Normal-mode noise	120db@100khz 60db@100khz		



Utilizing Advanced Digital Controller



Three Phase Model: OPCS-H-3P-S*

Model:	Rating KVA	Amps @ 380V	Amps @ 400V	Amps @ 415V	Dimensions (mm) W x H x D	Weight (Kgs)
OPCS 6H-3P-S	6	9.1	8.7	8.3	Dimensions and Weight upon request	
OPCS 10H-3P-S	10	15.2	14.4	13.9		
OPCS 15H-3P-S	15	22.8	21.6	20.9		
OPCS 20H-3P-S	20	30.4	28.9	27.8		
OPCS 25H-3P-S	25	38	36.1	35		
OPCS 30H-3P-S	30	46	43	42		
OPCS 35H-3P-S	35	53	51	49		
OPCS 40H-3P-S	40	61	58	56		
OPCS 45H-3P-S	45	68	65	63		
OPCS 50H-3P-S	50	76	72	70		
OPCS 55H-3P-S	55	84	79	77		
OPCS 60H-3P-S	60	91	87	83		
OPCS 75H-3P-S	75	114	108	104		
OPCS 80H-3P-S	80	122	115	111		
OPCS 90H-3P-S	90	137	130	125		
OPCS 100H-3P-S	100	152	144	139		
OPCS120H-3P-S	120	182	173	167		
OPCS 150H-3P-S	150	228	216	209		
OPCS 180H-3P-S	180	273	260	250		
OPCS 200H-3P-S	200	304	289	278		

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