

PCS H SERIES - SINGLE PHASE - 1 to 60 kVA

POWER CONDITIONING PROTECTION
against voltage fluctuations and line disturbances - ensuring a **CLEAN** supply.

FEATURES

- **Automatic Voltage Regulation**
Step less automated voltage regulation - ideal for 95% of all applications.
- **Wide Range of Power Ratings**
Single Phase - 1 to 60 KVA
- **Broad Input Voltage Swing Ranges**
Input Swing - $\pm 15\%$ (S15), $\pm 20\%$ (S20), $\pm 25\%$ (S25), $\pm 30\%$ (S30), $\pm 35\%$ (S35) & $\pm 40\%$ (S40) - to specify.
- **Precise Output Voltage Regulation**
Output Voltage Accuracy $\pm 1\%$
- **Transient Voltage Surge Suppression**
TVSS - Protects loads against harmful high-energy surges, transients and spikes
- **Input Isolation Transformer**
Offering enhanced Transient Voltage and Electrical Noise protection



SERVO ELECTRONIC DESIGN
AC POWER LINE CONDITIONERS
AC - SINGLE PHASE - 1 TO 60 kVA

PCS

220V - 230V - 240V - 50 or 60Hz

H - SINGLE PHASE

DELIVERING AN ENHANCED LEVEL OF POWER PROTECTION

AC mains voltage fluctuations and line disturbances 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 and unplanned down-time.

Ashley-Edison AC Power Line Conditioners offer -

- **An Enhanced Clean Supply**
Incorporating all the features and protection levels found in an SES Series Stabiliser, Ashley-Edison PCS Power Conditioners also offer, through the integration of a double wound isolation transformer, enhanced transient voltage surge defense and additional common and transverse electrical noise protection - delivering what is commonly referred to as a "CLEAN" supply.
- **Durability & Dependability**
With an impressively wide range of input voltage window options and precise output voltage regulation, the electro-mechanical / electronic servo design based PCS Power Conditioners have repeatedly proven their durability and dependability in some of the world's harshest and most demanding power environments.
- **Energy Efficiency**
Characterised by high efficiency, PCS Conditioners are completely unaffected by power factor and load variations. Able to withstand high instantaneous overloads, PCS Conditioners do not generate any magnetic interference - making them ideal for being located near to sensitive equipment. Through delivering a regulated, stable and optimised voltage to the equipment they support, PCS Conditioners ensure you only pay for the actual energy you need.

NOTE: For most applications, where electrical noise is not considered to be an issue, a Voltage Stabiliser / Regulator is usually the most appropriate and more cost-efficient solution for delivering dependable stable voltage.

- **High Efficiency**
Better than 98% for low running costs
- **Inbuilt High Overload Capability**
Ideal for loads with an inherent initial high current draw on start up
- **Over / Low Voltage Protection**
Ability to automatically shutdown the Power Conditioner in the event of the input supply voltage going outside the input voltage window
- **Input Circuit Breaker**
Standard protection on all models
- **Bypass Control Switch**
Manual Electronic Controls Bypass Facility
- **Soft Switch On / Start Up Load Protection**
Load protection on Start Up
- **Optional Accessories**
Output Circuit Breaker, Full Manual Maintenance Bypass Switch, Lightning Surge Protection, Thermostatically Controlled Heater, Digital Power Metering (with RS-485) & AquaStop Protective Coating for protection against damp and moisture ingress
- **Compliance with International Standards**
Designed, manufactured and supplied to comply with leading international standards
- **CE Conformity**
Fully compliant and labelled
- **Warranty**
3 Years / 36 Months as standard

VOLTAGE CHOICES AVAILABLE

2 WIRE SOLUTIONS

SINGLE PHASE WITH NEUTRAL (+ GROUND)

H SERIES

3 to 60 kVA

High Voltage Models:

220V, 230V or 240V.

Other voltages available on individual request / quotation.

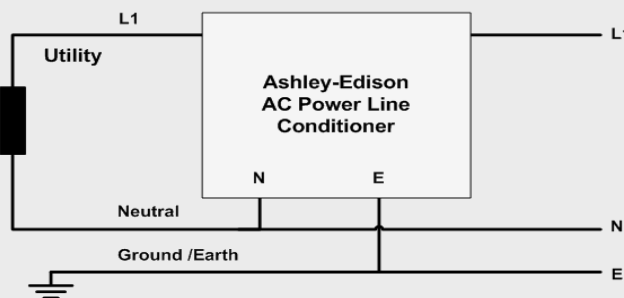
L SERIES

3 to 50 kVA

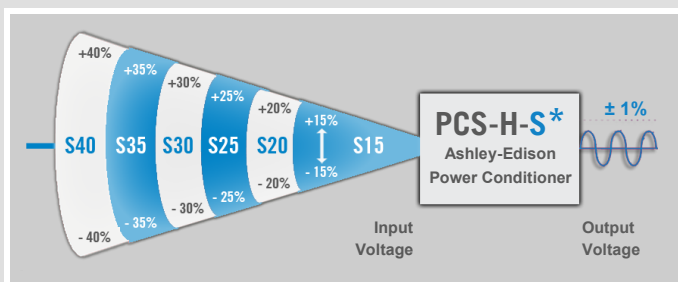
Low Voltage Models:

100V, 110V, 115V, 120V or 127V.

Other voltages available on individual request / quotation.



H SERIES INPUT VOLTAGE WINDOW OPTIONS



In situations where there is a reasonably good mains supply, a Power Conditioner offering an input variation swing of $\pm 15\%$ (S15 Models) will usually be more than acceptable, but in more remote locations, or countries where the national supply infrastructure is less developed, variations of $\pm 20\%$ or greater may be needed to be accommodated by the Conditioner.

Please Note – These Conditioners are not designed to support / protect voltage “back feed” applications, where energy is required to be also fed back into the utility supply.

H SERIES - PCS-H-S* Input Voltage Windows & Output Accuracy

Nominal Single Phase Voltage	Output Voltage Accuracy $\pm\%$ of Nominal	INPUT VOLTAGE SWINGS / SWING MODEL NO VARIANTS					
		S15	S20	S25	S30	S35	S40
		1 to 60 kVA	3 to 50 kVA	3 to 40 kVA	3 to 30 kVA	3 to 20 kVA	3 to 20 kVA
220V	$\pm 1\%$	187v to 253v ($\pm 15\%$)	176v to 264v ($\pm 20\%$)	165v to 275v ($\pm 25\%$)	154v to 286v ($\pm 30\%$)	143v to 297v ($\pm 35\%$)	132v to 308v ($\pm 40\%$)
	$\pm 3\%$	183v to 260v (-17% / +18%)	172v to 271v (-22% / +23%)	161v to 282v (-27% / +28%)	150v to 293v (-32% / +33%)	139v to 304v (-37% / +38%)	128v to 315v (-42% / +43%)
	$\pm 5\%$	178v to 266v (-19% / +21%)	167v to 277v (-24% / +26%)	156v to 288v (-29% / +31%)	145v to 299v (-34% / +36%)	134v to 310v (-39% / +41%)	123v to 321v (-44% / +46%)
230V	$\pm 1\%$	196v to 264v ($\pm 15\%$)	184v to 276v ($\pm 20\%$)	173v to 287v ($\pm 25\%$)	161v to 299v ($\pm 30\%$)	150v to 310v ($\pm 35\%$)	138v to 322v ($\pm 40\%$)
	$\pm 3\%$	191v to 271v (-17% / +18%)	179v to 283v (-22% / +23%)	168v to 294v (-27% / +28%)	156v to 306v (-32% / +33%)	145v to 317v (-37% / +38%)	133v to 329v (-42% / +43%)
	$\pm 5\%$	186v to 278v (-19% / +21%)	175v to 290v (-24% / +26%)	163v to 302v (-29% / +31%)	152v to 313v (-34% / +36%)	140v to 324v (-39% / +41%)	129v to 336v (-44% / +46%)
240V	$\pm 1\%$	204v to 276v ($\pm 15\%$)	192v to 288v ($\pm 20\%$)	180v to 300v ($\pm 25\%$)	168v to 312v ($\pm 30\%$)	156v to 324v ($\pm 35\%$)	144v to 336v ($\pm 40\%$)
	$\pm 3\%$	199v to 283v (-17% / +18%)	187v to 295v (-22% / +23%)	175v to 307v (-27% / +28%)	163v to 319v (-32% / +33%)	151v to 331v (-37% / +38%)	139v to 343v (-42% / +43%)
	$\pm 5\%$	194v to 290v (-19% / +21%)	182v to 302v (-24% / +26%)	170v to 314v (-29% / +31%)	158v to 326v (-34% / +36%)	146v to 338v (-39% / +41%)	134v to 350v (-44% / +46%)

TYPICAL APPLICATIONS

- Computers & Network Systems
- Medical Equipment
- Electronics Equipment
- Testing Equipment
- Laboratory Equipment
- Process Control Systems
- Base Transceiver Stations
- TV/Radio Broadcasting Stations
- Audio/Video Systems
- Security Systems
- Photo Processing Systems
- Marine Navigation Systems



TECHNICAL SPECIFICATION

Technology:	Servo Electronic - Variable Transformer controlled, series regulation transformer (buck-boost transformer with secondary wired in series with the load).
Input Voltage Swing:	$\pm 15\%$ (or -17% $+18\%$ or -19% $+21\%$) Single Phase, 2 Wire.
Output Voltage:	Presettable for any voltage between 220V, 230V, 240V, (Customer to specify), Single Phase, 2 Wire. 254V & 277V models available to special order. The permissible input voltage swing is relative to the preset output voltage.
Output Voltage Accuracy:	$\pm 1\%$, $\pm 3\%$ or $\pm 5\%$ - auto selection based on input voltage swing.
Frequency:	47 - 65Hz
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 minute 2 x max. current rating for 2 minutes
Surge Suppression:	TVSS - Protects loads against high-energy Spikes and Transient Voltages.
Shielded Isolation Transformer:	Shielded isolation transformer providing extra protection between the utility and the load. Protects against common and transverse mode electrical noise. Noise Attenuation - Common Mode - 120db@100khz - Normal Mode Noise - 60db@100khz
Soft-Switch On:	Ensures the output voltage is set at minimum upon Switch-On before commencing stabilization - protects load equipment from damaging start up voltage surges

Total Harmonic Distortion:	Less than 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.
Construction:	Enclosures to IP21 (NEMA 1 Style) - BS EN 60529.
Paint Colour:	RAL 7032 (Grey - Epoxy Powder Coating)
EMC Conformance:	Complies with BS EN 55022 and the relevant parts of the BS EN 61000 series of standards.
CE Conformity:	CE Marked - being fully compliant with European Union Directives 2004/108/EC (The EMC Directive) and 2006/95/EC (The Low Voltage Directive).
Standard Warranty:	Three Years / 36 Months from date of supply
Standard Features:	Input Circuit Breaker Over / Low Voltage Protection Input / Output Terminals Bypass Control Switch Voltmeter Ammeter (Non 016AE Enclosures)
Optional Accessories:	Output Breaker Manual Maintenance Bypass Switch Lightning Surge Arrestor Thermostatically Controlled Heater - for low temperature applications Digital Power Metering (with RS-485) - showing V,A,W,VA,AER,PF & kWh AquaStop Protective Coating - protection against damp and moisture ingress
Optional Step Down Voltage Feature:	Ideal for applications where the utility supply voltage is different from the load equipment's requirement - see OPCS-HL SERIES Step Down AC Power Line Conditioners.

Note: Optional Accessories added may affect dimensions - subject to confirmation.

S15 PRODUCT SELECTION TABLEALSO available in
Indoor IP54 / NEMA 3 Style Enclosures - **OPCS SERIES**

Model	Rating kVA	Max Rating (Amps)			Dimensions W x H x D (mm)	Weight Kg	Enclosure Type
		@ 220V	@ 230V	@ 240V			
PCS-1H-S15	1	4.5	4.3	4.2	210 x 630 x 420	44	016AE
PCS-2H-S15	2	9.1	8.7	8.3	210 x 630 x 420	45	016AE
PCS-3H-S15	3	13.6	13.0	12.5	210 x 630 x 420	46	016AE
PCS-4H-S15	4	18	17	17	210 x 630 x 420	62	016AE
PCS-5H-S15	5	23	22	21	210 x 630 x 420	63	016AE
PCS-8H-S15	8	36	35	33	210 x 630 x 420	79	016AE
PCS-10H-S15	10	46	44	42	210 x 630 x 420	89	016AE
PCS-15H-S15	15	68	65	63	400 x 580 x 500	121	103
PCS-20H-S15	20	91	87	83	500 x 700 x 600	168	104A
PCS-30H-S15	30	136	130	125	500 x 700 x 600	251	104A
PCS-40H-S15	40	182	174	167	500 x 900 x 600	270	104
PCS-50H-S15	50	227	217	208	600 x 1170 x 600	290	105
PCS-60H-S15	60	273	261	250	700 x 1400 x 800	400	106

TECHNICAL SPECIFICATION

Technology:	Servo Electronic - Variable Transformer controlled, series regulation transformer (buck-boost transformer with secondary wired in series with the load).
Input Voltage Swing:	$\pm 20\%$ (or -22% $+23\%$ or -24% $+26\%$) Single Phase, 2 Wire.
Output Voltage:	Presettable for any voltage between 220V, 230V, 240V, (Customer to specify), Single Phase, 2 Wire. 254V & 277V models available to special order. The permissible input voltage swing is relative to the preset output voltage.
Output Voltage Accuracy:	$\pm 1\%$, $\pm 3\%$ or $\pm 5\%$ - auto selection based on input voltage swing.
Frequency:	47 - 65Hz
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 minute 2 x max. current rating for 2 minutes
Surge Suppression:	TVSS - Protects loads against high-energy Spikes and Transient Voltages.
Shielded Isolation Transformer:	Shielded isolation transformer providing extra protection between the utility and the load. Protects against common and transverse mode electrical noise. Noise Attenuation - Common Mode - 120db@100khz - Normal Mode Noise - 60db@100khz
Soft-Switch On:	Ensures the output voltage is set at minimum upon Switch-On before commencing stabilization - protects load equipment from damaging start up voltage surges

Total Harmonic Distortion:	Less than 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.
Construction:	Enclosures to IP21 (NEMA 1 Style) - BS EN 60529.
Paint Colour:	RAL 7032 (Grey - Epoxy Powder Coating)
EMC Conformance:	Complies with BS EN 55022 and the relevant parts of the BS EN 61000 series of standards.
CE Conformity:	CE Marked - being fully compliant with European Union Directives 2004/108/EC (The EMC Directive) and 2006/95/EC (The Low Voltage Directive).
Standard Warranty:	Three Years / 36 Months from date of supply
Standard Features:	Input Circuit Breaker Over / Low Voltage Protection Input / Output Terminals Bypass Control Switch Voltmeter Ammeter (Non 016AE Enclosures)
Optional Accessories:	Output Breaker Manual Maintenance Bypass Switch Lightning Surge Arrestor Thermostatically Controlled Heater - for low temperature applications Digital Power Metering (with RS-485) - showing V,A,W,VA,AER,PF & kWh AquaStop Protective Coating - protection against damp and moisture ingress
Optional Step Down Voltage Feature:	Ideal for applications where the utility supply voltage is different from the load equipment's requirement - see OPCS-HL SERIES Step Down AC Power Line Conditioners.

Note: Optional Accessories added may affect dimensions - subject to confirmation.

S20 PRODUCT SELECTION TABLEALSO available in
Indoor IP54 / NEMA 3 Style Enclosures - **OPCS SERIES**

Model	Rating kVA	Max Rating (Amps)			Dimensions W x H x D (mm)	Weight Kg	Enclosure Type
		@ 220V	@ 230V	@ 240V			
PCS-1H-S20	1	4.5	4.3	4.2	Dimensions & Weights available on Request		
PCS-2H-S20	2	9.1	8.7	8.3			
PCS-3H-S20	3	13.6	13.0	12.5			
PCS-4H-S20	4	18	17	17			
PCS-5H-S20	5	23	22	21			
PCS-8H-S20	8	36	35	33			
PCS-10H-S20	10	46	44	42			
PCS-15H-S20	15	68	65	63			
PCS-20H-S20	20	91	87	83			
PCS-30H-S20	30	136	130	125			
PCS-40H-S20	40	182	174	167			
PCS-50H-S20	50	227	217	208			



TECHNICAL SPECIFICATION

Technology:	Servo Electronic - Variable Transformer controlled, series regulation transformer (buck-boost transformer with secondary wired in series with the load).
Input Voltage Swing:	±25% (or -27% +28% or -29% +31%) Single Phase, 2 Wire.
Output Voltage:	Presettable for any voltage between 220V, 230V, 240V, (Customer to specify), Single Phase, 2 Wire. 254V & 277V models available to special order. The permissible input voltage swing is relative to the preset output voltage.
Output Voltage Accuracy:	± 1%, ± 3% or ± 5 % - auto selection based on input voltage swing.
Frequency:	47 - 65Hz
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 minute 2 x max. current rating for 2 minutes
Surge Suppression:	TVSS - Protects loads against high-energy Spikes and Transient Voltages.
Shielded Isolation Transformer:	Shielded isolation transformer providing extra protection between the utility and the load. Protects against common and transverse mode electrical noise. Noise Attenuation - Common Mode - 120db@100khz - Normal Mode Noise - 60db@100khz
Soft-Switch On:	Ensures the output voltage is set at minimum upon Switch-On before commencing stabilization - protects load equipment from damaging start up voltage surges

Total Harmonic Distortion:	Less than 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.
Construction:	Enclosures to IP21 (NEMA 1 Style) - BS EN 60529.
Paint Colour:	RAL 7032 (Grey - Epoxy Powder Coating)
EMC Conformance:	Complies with BS EN 55022 and the relevant parts of the BS EN 61000 series of standards.
CE Conformity:	CE Marked - being fully compliant with European Union Directives 2004/108/EC (The EMC Directive) and 2006/95/EC (The Low Voltage Directive).
Standard Warranty:	Three Years / 36 Months from date of supply
Standard Features:	Input Circuit Breaker Over / Low Voltage Protection Input / Output Terminals Bypass Control Switch Voltmeter Ammeter (Non 016AE Enclosures)
Optional Accessories:	Output Breaker Manual Maintenance Bypass Switch Lightning Surge Arrestor Thermostatically Controlled Heater - for low temperature applications Digital Power Metering (with RS-485) - showing V,A,W,VA,AER,PF & kWh AquaStop Protective Coating - protection against damp and moisture ingress
Optional Step Down Voltage Feature:	Ideal for applications where the utility supply voltage is different from the load equipment's requirement - see OPCS-HL SERIES Step Down AC Power Line Conditioners.

Note: Optional Accessories added may affect dimensions - subject to confirmation.

S25 PRODUCT SELECTION TABLEALSO available in
Indoor IP54 / NEMA 3 Style Enclosures - **OPCS SERIES**

Model	Rating kVA	Max Rating (Amps)			Dimensions W x H x D (mm)	Weight Kg	Enclosure Type
		@ 220V	@ 230V	@ 240V			
PCS-1H-S25	1	4.5	4.3	4.2	Dimensions & Weights available on Request		
PCS-2H-S25	2	9.1	8.7	8.3			
PCS-3H-S25	3	13.6	13.0	12.5			
PCS-4H-S25	4	18	17	17			
PCS-5H-S25	5	23	22	21			
PCS-8H-S25	8	36	35	33			
PCS-10H-S25	10	46	44	42			
PCS-15H-S25	15	68	65	63			
PCS-20H-S25	20	91	87	83			
PCS-30H-S25	30	136	130	125			
PCS-40H-S25	40	182	174	167			



PCS H-S30 SERIES - SINGLE PHASE - 3 to 30 kVA

TECHNICAL SPECIFICATION


Technology:	Servo Electronic - Variable Transformer controlled, series regulation transformer (buck-boost transformer with secondary wired in series with the load).
Input Voltage Swing:	±30% (or -32% +33% or -34% +36%) Single Phase, 2 Wire.
Output Voltage:	Presettable for any voltage between 220V, 230V, 240V, (Customer to specify), Single Phase, 2 Wire. 254V & 277V models available to special order. The permissible input voltage swing is relative to the preset output voltage.
Output Voltage Accuracy:	± 1%, ± 3% or ± 5 % - auto selection based on input voltage swing.
Frequency:	47 - 65Hz
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 minute 2 x max. current rating for 2 minutes
Surge Suppression:	TVSS - Protects loads against high-energy Spikes and Transient Voltages.
Shielded Isolation Transformer:	Shielded isolation transformer providing extra protection between the utility and the load. Protects against common and transverse mode electrical noise. Noise Attenuation - Common Mode - 120db@100khz - Normal Mode Noise - 60db@100khz
Soft-Switch On:	Ensures the output voltage is set at minimum upon Switch-On before commencing stabilization - protects load equipment from damaging start up voltage surges

Total Harmonic Distortion:	Less than 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.
Construction:	Enclosures to IP21 (NEMA 1 Style) - BS EN 60529.
Paint Colour:	RAL 7032 (Grey - Epoxy Powder Coating)
EMC Conformance:	Complies with BS EN 55022 and the relevant parts of the BS EN 61000 series of standards.
CE Conformity:	CE Marked - being fully compliant with European Union Directives 2004/108/EC (The EMC Directive) and 2006/95/EC (The Low Voltage Directive).
Standard Warranty:	Three Years / 36 Months from date of supply
Standard Features:	Input Circuit Breaker Over / Low Voltage Protection Input / Output Terminals Bypass Control Switch Voltmeter Ammeter (Non 016AE Enclosures)
Optional Accessories:	Output Breaker Manual Maintenance Bypass Switch Lightning Surge Arrestor Thermostatically Controlled Heater - for low temperature applications Digital Power Metering (with RS-485) - showing V,A,W,VA,AER,PF & kWh AquaStop Protective Coating - protection against damp and moisture ingress
Optional Step Down Voltage Feature:	Ideal for applications where the utility supply voltage is different from the load equipment's requirement - see OPCS-HL SERIES Step Down AC Power Line Conditioners.

Note: Optional Accessories added may affect dimensions - subject to confirmation.

S30 PRODUCT SELECTION TABLE

ALSO available in
Indoor IP54 / NEMA 3 Style Enclosures - **OPCS SERIES**

Model	Rating kVA	Max Rating (Amps)			Dimensions W x H x D (mm)	Weight Kg	Enclosure Type
		@ 220V	@ 230V	@ 240V			
PCS-1H-S30	1	4.5	4.3	4.2	Dimensions & Weights available on Request 		
PCS-2H-S30	2	9.1	8.7	8.3			
PCS-3H-S30	3	13.6	13.0	12.5			
PCS-4H-S30	4	18	17	17			
PCS-5H-S30	5	23	22	21			
PCS-8H-S30	8	36	35	33			
PCS-10H-S30	10	46	44	42			
PCS-15H-S30	15	68	65	63			
PCS-20H-S30	20	91	87	83			
PCS-30H-S30	30	136	130	125			

TECHNICAL SPECIFICATION

Technology:	Servo Electronic - Variable Transformer controlled, series regulation transformer (buck-boost transformer with secondary wired in series with the load).
Input Voltage Swing:	±35% (or -37% +38% or -39% +41%) Single Phase, 2 Wire.
Output Voltage:	Presettable for any voltage between 220V, 230V, 240V, (Customer to specify), Single Phase, 2 Wire. 254V & 277V models available to special order. The permissible input voltage swing is relative to the preset output voltage.
Output Voltage Accuracy:	± 1%, ± 3% or ± 5 % - auto selection based on input voltage swing.
Frequency:	47 - 65Hz
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 minute 2 x max. current rating for 2 minutes
Surge Suppression:	TVSS - Protects loads against high-energy Spikes and Transient Voltages.
Shielded Isolation Transformer:	Shielded isolation transformer providing extra protection between the utility and the load. Protects against common and transverse mode electrical noise. Noise Attenuation - Common Mode - 120db@100khz - Normal Mode Noise - 60db@100khz
Soft-Switch On:	Ensures the output voltage is set at minimum upon Switch-On before commencing stabilization - protects load equipment from damaging start up voltage surges

Total Harmonic Distortion:	Less than 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.
Construction:	Enclosures to IP21 (NEMA 1 Style) - BS EN 60529.
Paint Colour:	RAL 7032 (Grey - Epoxy Powder Coating)
EMC Conformance:	Complies with BS EN 55022 and the relevant parts of the BS EN 61000 series of standards.
CE Conformity:	CE Marked - being fully compliant with European Union Directives 2004/108/EC (The EMC Directive) and 2006/95/EC (The Low Voltage Directive).
Standard Warranty:	Three Years / 36 Months from date of supply
Standard Features:	Input Circuit Breaker Over / Low Voltage Protection Input / Output Terminals Bypass Control Switch Voltmeter Ammeter (Non 016AE Enclosures)
Optional Accessories:	Output Breaker Manual Maintenance Bypass Switch Lightning Surge Arrestor Thermostatically Controlled Heater - for low temperature applications Digital Power Metering (with RS-485) - showing V,A,W,VA,AER,PF & kWh AquaStop Protective Coating - protection against damp and moisture ingress
Optional Step Down Voltage Feature:	Ideal for applications where the utility supply voltage is different from the load equipment's requirement - see OPCS-HL SERIES Step Down AC Power Line Conditioners.

Note: Optional Accessories added may affect dimensions - subject to confirmation.

S35 PRODUCT SELECTION TABLEALSO available in
Indoor IP54 / NEMA 3 Style Enclosures - **OPCS SERIES**

Model	Rating kVA	Max Rating (Amps)			Dimensions W x H x D (mm)	Weight Kg	Enclosure Type
		@ 220V	@ 230V	@ 240V			
PCS-1H-S35	1	4.5	4.3	4.2	Dimensions & Weights available on Request		
PCS-2H-S35	2	9.1	8.7	8.3			
PCS-3H-S35	3	13.6	13.0	12.5			
PCS-4H-S35	4	18	17	17			
PCS-5H-S35	5	23	22	21			
PCS-8H-S35	8	36	35	33			
PCS-10H-S35	10	46	44	42			
PCS-15H-S35	15	68	65	63			
PCS-20H-S35	20	91	87	83			



PCS H-S40 SERIES - SINGLE PHASE - 3 to 20 kVA

TECHNICAL SPECIFICATION

Technology:	Servo Electronic - Variable Transformer controlled, series regulation transformer (buck-boost transformer with secondary wired in series with the load).
Input Voltage Swing:	±40% (or -42% +43% or -44% +46%) Single Phase, 2 Wire.
Output Voltage:	Presettable for any voltage between 220V, 230V, 240V, (Customer to specify), Single Phase, 2 Wire. 254V & 277V models available to special order. The permissible input voltage swing is relative to the preset output voltage.
Output Voltage Accuracy:	± 1%, ± 3% or ± 5 % - <i>auto selection based on input voltage swing.</i>
Frequency:	47 - 65Hz
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 minute 2 x max. current rating for 2 minutes
Surge Suppression:	TVSS - Protects loads against high-energy Spikes and Transient Voltages.
Shielded Isolation Transformer:	Shielded isolation transformer providing extra protection between the utility and the load. Protects against common and transverse mode electrical noise. Noise Attenuation - Common Mode - 120db@100khz - Normal Mode Noise - 60db@100khz
Soft-Switch On:	Ensures the output voltage is set at minimum upon Switch-On before commencing stabilization - protects load equipment from damaging start up voltage surges

Total Harmonic Distortion:	Less than 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.
Construction:	Enclosures to IP21 (NEMA 1 Style) - BS EN 60529.
Paint Colour:	RAL 7032 (Grey - Epoxy Powder Coating)
EMC Conformance:	Complies with BS EN 55022 and the relevant parts of the BS EN 61000 series of standards.
CE Conformity:	CE Marked - being fully compliant with European Union Directives 2004/108/EC (The EMC Directive) and 2006/95/EC (The Low Voltage Directive).
Standard Warranty:	Three Years / 36 Months from date of supply
Standard Features:	Input Circuit Breaker Over / Low Voltage Protection Input / Output Terminals Bypass Control Switch Voltmeter Ammeter (Non 016AE Enclosures)
Optional Accessories:	Output Breaker Manual Maintenance Bypass Switch Lightning Surge Arrestor Thermostatically Controlled Heater - for low temperature applications Digital Power Metering (with RS-485) - showing V,A,W,VA,AER,PF & kWh AquaStop Protective Coating - protection against damp and moisture ingress
Optional Step Down Voltage Feature:	Ideal for applications where the utility supply voltage is different from the load equipment's requirement - see OPCS-HL SERIES Step Down AC Power Line Conditioners.

Note: Optional Accessories added may affect dimensions - subject to confirmation.

S40 PRODUCT SELECTION TABLE

ALSO available in
Indoor IP54 / NEMA 3 Style Enclosures - **OPCS SERIES**

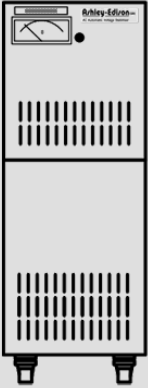
Model	Rating kVA	Max Rating (Amps)			Dimensions W x H x D (mm)	Weight Kg	Enclosure Type
		@ 220V	@ 230V	@ 240V			
PCS-1H-S40	1	4.5	4.3	4.2	Dimensions & Weights available on Request		
PCS-2H-S40	2	9.1	8.7	8.3			
PCS-3H-S40	3	13.6	13.0	12.5			
PCS-4H-S40	4	18	17	17			
PCS-5H-S40	5	23	22	21			
PCS-8H-S40	8	36	35	33			
PCS-10H-S40	10	46	44	42			
PCS-15H-S40	15	68	65	63			
PCS-20H-S40	20	91	87	83			



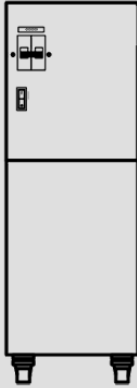
ENCLOSURE TYPES

016AE

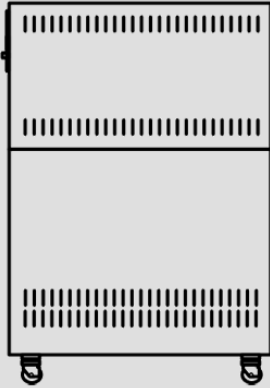
Front



Rear



Side



Features: Input Circuit Breaker, Input / Output Terminals, Bypass Control Switch, Output Voltmeter & Under / Over Voltage Protection.

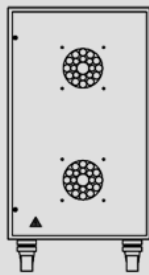
Enclosure	Physical Size:
016AE	210(W) x 630(H) x 420(D) mm 8.3"(W) x 24.9"(H) x 16.6"(D) inches

103 - 106

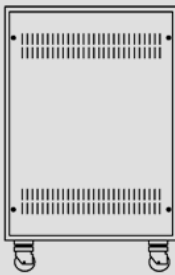
Front



Rear



Side



Features: Input Circuit Breaker, Input / Output Terminals, Output Voltmeter and Ammeter, Bypass Control Switch, Under / Over Voltage Protection & Free Standing Enclosure on Castors.

Enclosure	Physical Size:
103	400(W) x 580(H) x 500(D) mm 15.8"(W) x 22.9"(H) x 19.7"(D) inches
104A	500(W) x 700(H) x 600(D) mm 19.7"(W) x 27.6"(H) x 23.7"(D) inches
104	500(W) x 900(H) x 600(D) mm 19.7"(W) x 35.5"(H) x 23.7"(D) inches
105	600(W) x 1170(H) x 700(D) mm 23.7"(W) x 46.1"(H) x 27.6"(D) inches
106	700(W) x 1400(H) x 800(D) mm 27.6"(W) x 55.2"(H) x 31.5"(D) inches

AVAILABILITY

We offer probably the best availability on AC Voltage Stabiliser & Power Conditioning solutions.

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Please ask for a copy of our

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