



FLUENCE SYSTEMS

RELIABLE INFRASTRUCTURE

PQC series voltage stabilizers

PQC series is a high precision auto voltage regulator consisting of contact auto-transformer, servo motor and automatic control circuit.

During grid voltage instability or load fluctuations, the automatic control circuit drives the servo motor to maintain the user selectable voltage setting, adjusting the output in seamless fine movements to maintain the required voltage downstream.

PQC series products with advanced microchip control and high end materials guarantee peace of mind for customers with unstable grid connections of large step loads affecting incoming voltage levels on other loads.

Features

- High adaptability to all kinds of non-linear loads, such as:
 - Inductive loads
 - Capacitive loads
 - Power Electronics and Pulsating
- High power density: with small footprint transformers and central servo motor placement, the PQC series offers one of the smallest market footprints, improving customer installation flexibility and after the addition after build-up.
- High cost-effectiveness: PQC series' smart selection of materials and scaled design allows the customer to select from a wide range of ratings reducing the gaps between sizing and selection.
- Low cost of ownership: The ring transformer structure and small footprint with minimum magnetic leakage, low noise and multilayer structure and carbon brush long service interval elements all make an almost service free product.



Single Phase Range Specifications *

Model	PQC-1Ki1	PQC-5Ki1	PQC-10Ki1	PQC-15Ki1
Capacity	1 KVA	5 KVA	10 KVA	15 KVA
AC Input Voltage**	150-260 V			
Frequency Range**	50 Hz			
Input Connections	Hardwired L+N+PE (PQC-1Ki1 ships with type H connections as standard)			
Output Voltage**	220/230 V selectable $\pm 3\%$			
Waveform	Sinusoidal			
Efficiency	$\geq 96\%$			
Power Factor	0.8			
Response Time	$< 1 \text{ s} \pm 10\%$			
Voltage Correction Range	150 - 260 Vac			
Protections***	Startup delay, short circuit, over temperature, mechanical failure, over current			
Insulation Resistance	$\geq 2\text{M } \Omega$			
Dielectric Intensity	Input & output to earth: @ 50 Hz @ 2000 Vac for 1 min, leakage current is less than 10mA @ 2800 Vdc for 1 min, leakage current is less than 1mA			
Operation Temp. Range	0° - 40° C			
Altitude	0 - 1000 m			
Relative Humidity	0 % - 95 % non-condensating			
Dimensions (WxDxH in mm)	176x190x146	325x240x275	412x244x372	400x345x665
Weight (kg)	5	15	24	43

* All specifications are subject to change without prior notice.

** Custom made specifications are available upon request (MoQ's apply).

*** Internal protections provided do not relief the installer from following local codes and providing external upstream and downstream protections as required by local codes.

Three Phase Range Specifications *

Model	PQC-20Ki3	PQC-30Ki3	PQC-50Ki3	PQC-100Ki3	PQC-225Ki3
Capacity	20 KVA	30 KVA	50 KVA	100 KVA	225 KVA
AC Input Voltage**	275-455 V				
Frequency Range**	50 Hz				
Input Connections	Hardwired 3L+N+PE				
Output Voltage**	380/400 V selectable ± 5 V				
Waveform	Sinusoidal				
Efficiency	$\geq 96\%$				
Power Factor	0.8				
Response Time	$< 1 \text{ s} \pm 10\%$				
Voltage Correction Range	275-455 Vac				
Protections***	Startup delay, short circuit, over temperature, mechanical failure, over current, phase sequence, phase failure				
Insulation Resistance	$\geq 2\text{M } \Omega$				
Dielectric Intensity (per phase)	Input & output to earth: @ 50 Hz @ 2000 Vac for 1 min, leakage current is less than 10mA @ 2800 Vdc for 1 min, leakage current is less than 1mA				
Operation Temp. Range	0° - 40° C				
Altitude	0 - 1000 m				
Relative Humidity	0 % - 95 % non-condensating				
Dimensions (WxDxH in mm)	500x445x820	500x445x820	550x545x1020	600x545x1210	800x750x1550
Weight (kg)	63	107	300	408	825

* All specifications are subject to change without prior notice.

** Custom made specifications are available upon request (MoQ's apply).

*** Internal protections provided do not relieve the installer from following local codes and providing external upstream and downstream protections as required by local codes.