

AC Voltage Stabiliser

QuadCore 3 for Three-Phase

QuadCore is a new kind of a digital AC voltage stabiliser. Maintenance-free regulation without moving parts. No tapped transformers with course regulation, no service-prone servos, no high price high frequency IGBTs with shielding and filters.



When three-phase voltages are too low or too high or three-phase voltages are unbalanced at times, this QuadCore3 will reliably stabilise and balance the three output phases with high precision.

QuadCore is compatible with all loads: Motors, heaters, inverters, all machines.

Four binary weighted transformers per phase and reliable thyristors stabilise over- and under-voltages. No switching in the power path, no switching in the sine wave; no switching at all. Just smooth and stress-free component-selecting at zero-crossing moments in the sine wave.

Several times per second QuadCore computes which of the four transformers with correction voltages in the ratio 8:4:2:1 are to be combined to compensate for an input voltage error.

QuadCore 315 has a throughput of 15kW, QuadCore 330 30kW.
Duty cycle: 100%. Full power continuously.
Overloads: 150% for 20 seconds, 300% for 5 seconds.

Output is 3x 230V - +1.5% phase to Neutral or balanced 3x 400VAC at input voltages between 188V and 272V phase to Neutral (about 320V - 480V between phases).

Outside these limits, the phase correction quality is reduced. The maximum input voltage is 150V - 300V phase to Neutral. QuadCore 3 disconnects all three output phases when it is unable to maintain reliable output voltages on all phases. It automatically reconnects after conditions are found safe and steady.

Efficiency is 98%.

Operating ambient temperatures are -15 to 45 degrees C.

Reduce the throughput by 5% for each additional degree C from 45 degrees C onwards.

To be used in a dry and ventilated room.

Motor-rated input overload protection is to be used in the user's installation.

Dimensions are W410 x L790 x H 370 mm. Powder coating is satin black.

Weight of QuadCore315: 90kg, of QuadCore330: 140kg.

