

# Thyro-Power-WK



The rectifier construction of the production series **Thyro-Power-WK** in principle is characterized by an electronic Thyristorcontrol-unit (W3C) and high-current-transformer with a secondary connected silicon diode-stack in 6-pulse rectifier-connection. All constructions and developments are made by IPS-Fest so that the customer will get the highest possible flexibility and technical know-how. This is realized with our high degree of own manufacturing, including the IPS transformer and smoothing choke production.

### Single rectifiers from:

UDC = 2 - 1.000V  
IDC = 100 - 100.000A

### Technical Data:

Mains:	3x 400V / 50Hz (worldwide mains-conditions possible)
Regulating:	current and/or voltage with <1% accuracy (stepless electronic 0...100%)
Signals:	current, voltage, status, fault (signals fault optional)
Control:	interface for external control
Ripple:	<7% at regulated full-DC-output voltage (< 5% at full range)
Rectifier connection:	6-pulse rectifier-connection (M6; M3.2; B6)
Operation mode:	100% duty cycle
Temperature:	+35°C (higher temperature conditions possible)
Water inlet temp.:	+18 - 30°C
Temp.-diff.:	10 K
Detection:	phase position; phase rotation; phase loss; over current relay; mains low voltage; short-circuit detection; temperatures; water flow; water pressure
Degree of protection:	IP20 - IP66 (with additional air- water- heat-exchanger)

### Options:

- Field-bus interface (Profibus; Interbus-S; CAN-Bus; RS-485 etc.)
- Electronic switch of DC output polarity (reversal operation mode)
- Process control (PLC-control with Visualization and documentation in Excel)
- Smoothing devices (L and LC smoothing <1% possible)
- Ah-counter-integration
- Closed internal water circuit with w/w heat-exchanger
- IPS-Power-Pulse
- Special constructions according to customer requirements

### IPS-Thyro-Power-WK means:

- High speed regulation
- High regulating accuracy
- Short-circuit management
- No mechanical wear
- Low maintenance and high reliability
- Integration in existing cooling systems possible / Heat recovery
- No environmental compliances
- No need of fire preventions



SCHMIDT  
KRANZ &  
Co. GmbH

Member of SK-Group