



CATHODIC PROTECTION

BTH1-50V50A Automatic Cathodic Protection Rectifier



High Efficiency, Oil Cooled CP Rectifier
with Built-in GPS Interrupter
and MODBUS Scada Connection



BTH1-50V50A is a DSP controlled, fully programmable, high efficiency cathodic protection rectifier designed to keep up with the severe conditions faced in harsh working environment, equipped with all the necessary protective components and functions to protect itself under extreme conditions such as overcurrent and overheat or surges coming from any cable connection.

BTH1-50V50A has a unique feature of being able to work with 2 or 3 phase of supply. This feature makes it possible to operate under unstable mains conditions.

BTH1-50V50A has a high efficiency insulating step down transformer with an efficiency of greater than %95 and is designed to withstand an overload condition of %125 continuously.

BTH1-50V50A Power Module consists of a Low output ripple High efficiency step down DC to DC converter operating at 50 KHz.

High switching frequency allows fast output control and line voltage compensation. Utilisation of a DC to DC converter provides an overall efficiency of greater than %90. The System is able to diagnose and report critical conditions such as Anode, Cathode or Reference electrode cable breaks and also logs the error codes which can be analysed over MODBUS connection.

Multiple units can be synchronized through **GPS satellites (optional)** which makes it possible to conduct pipeline diagnostic works without using expensive external interrupters.



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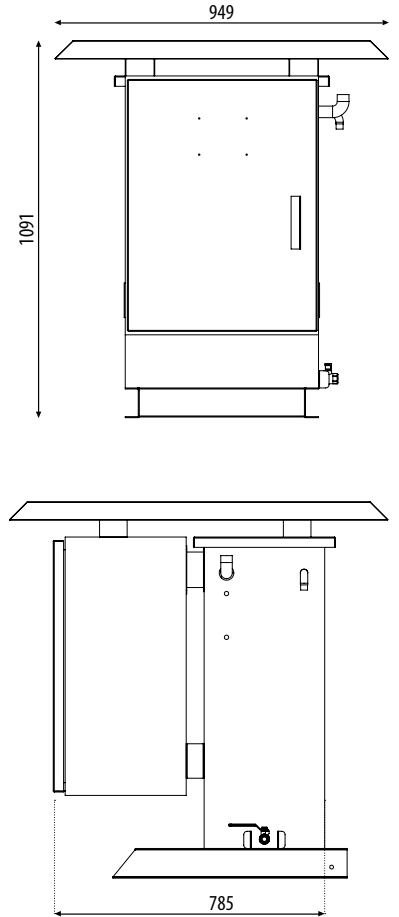
Reliable power topology,
precise output control



Technical Specifications

Supply Voltage	230 V 50 Hz
Supply Current	18 A
Input Power	7.17 kVA
Output Voltage	50 V
Output Current	50 A
Output Power	2500 W
Panel	Hot Dip Galvanized/Stainless Steel (Optional)
IP Protection	IP55
Cooling Oil	Electrol U/N42
Tank Capacity	100 lt
Oil Level Indicator	Available
Oil Temperature Indicator	Available
Locking Oil Tank Cover	Available
User Interface	LCD Character 20X4, 4x4 keypad and indicator LEDs
Scada Connection	RS485 Modbus RTU
4G GSM Module	Available (Optional)
Built-in Interrupter	Available (Optional)
Modular Functioning	Available (Optional)
Output Contacts	4 Dry Contacts
Short Circuit Protection	Electronic
Reference Electrode Input	2 (Up to 6 optional for each Modul)
Reference Input Range	± 10 VDC
Sunshade	Available
Pano Boyutları (YxGxD)	1092x 550 x 775 mm
Sunshade Size (WxD)	945 x 1095 mm
Warranty	2 years (component and workmanship faults)
Component and Service Warranty	10 year

All measurement devices are integrated with user interface in system.
All measurements can be seen on LCD display.



* Please note that all products, product specifications and data presented in this datasheet or web site are believed to be free of errors and subject to change without prior notification for continued improvement. It is the users responsibility to ensure the suitability of the product for a specific application.