



ست نیک
OOSETNIC

High Power Industrial Thyristor Control Rectifier & Charger
General Catalogue

Our Experience Meets Your Demands

Key Features:

- . Expansion capacity: 6 systems max.
- . User-friendly large system monitoring
- . Different Charge mode (Float , Equalize, Initial, Auto & Manual)
- . Accordance with DIN 41773
- . Low Loss Dropper With AVR Control system
- . Different Protection level :
- . Output short Circuit ,
- . Optional earth Leakage
- . Reverse Battery Polarity
- . Over Discharge on Battery
- . Input & output under & over Voltage
- . Phase fail & Phase sequence on input
- . Two Channel current Limit
- . IEC Standard



SETNIC 6 or 12 pulses Thyristor control high Power rectifiers & Charger Systems are specially designed for the different industrial applications. This system can drive large installations such as high power DC load in power plants with independent batteries or in different industrial application with batteries included. The design is equipped with expansion flexibility for achieving higher output power and also provides users the most cost- effective solution. Thanks to the advanced AVR control technology we have the minimum power loss on the output dropper .

SETNIC

**High Power Thyristor Control Rectifier & Charger
(UP To 400Vdc / 1000A)**

SPECIFICATIONS

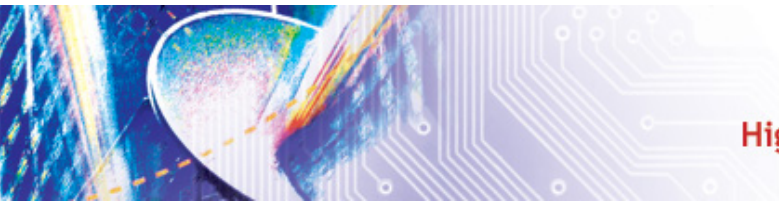
AC Input

Voltage	400Vac three phase + Null & Earth and +15% & - 15% (operating range :195.5Vac - 264.5Vac)
Current	Power Dependent
Inrush current	less than input rated current with Soft start
Frequency range	47.5Hz - 52.5Hz
Power factor	> 0.8 (full load)
Input surge safety test	meet ANSI/IEEE C62.41-1991
Protections	input breaker over current protection, Soft Start, surge protections and phase sequence or failure

DC Output

Power	Up to 400 KWATT
Voltage	24 , 48 , 110 , 220 , 400Vdc (Other voltages on request)
Current	UP to 1000 A
Current limit	Adjustable

Current sharing capability	Percentage adjustable between rectifiers
Efficiency	> 90% (full load)
Load regulation	< 0.5% (no load to full load)
Line regulation	< 0.5%
Charging Characteristic	DIN41773
Soft-start time	3 to 10 second
Ripple Without Battery (rms)	Less Than 1% (Other percent on request)
Parallel Operation	Up to 6 unit
Wide band noise	< 0.1mVrms (3.4k - 100MHz)
Peak to peak noise	< 2mV (0 - 20MHz)
Voice band noise	< 55dBA Up to 70 dBA Power dependent)
(Psophometric noise)	< 40dBnc (2mV) without battery
Protections	
	Input Over current , output over & under Voltage Phase fail & Phase sequence On input Over Discharge On battery (Optional cut off) Earth Leakage Reverses Polarity Connection of Battery Current Limit Short Circuit Fuse on AC , Battery and load load RFI Suppression accordance with VDE0875 Dual Channel Current limit Galvanic Isolation ,Short Circuit ,Over heat
Charging Mode	
	Float Equalize Initial Auto& Manual
Dropper System	
On load	One or two steps
Status & Alarm Indications	
Output voltage	Class 1.5 on front panel
Output Current	Class 1.5 in front panel
General fault	LED on panel
AC voltage supervisory	LED on panel
DC voltage supervisory	LED on panel
Charging mode indicator	LED on panel
Ambient Condition	
Cooling	Natural Air Cooling
Temperature	-50C to +500C(20F-115F)
Altitude	3000M (10000FT) above sea level
Humidity	90%



Dimension & Weight	
Single Rack Dimensions (for under 100 Watt)	1000/1800 x 600/800x450/800 mm (H×W×D)
Weight	Power Dependent from 100 to 1000 Kg
Color	
Galvanized For structure and Ral 7035 for Rack view	
Other color on request	

