

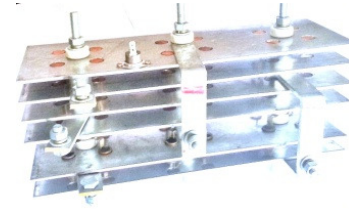
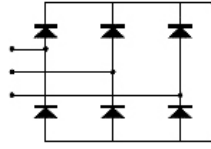
## Three phase rectifier stack (with press-fit diodes), 700A

### Features

- Compact design
- Low cost
- High efficiency
- Forced cooling

### Applications

- Power supplies
- Welding machines
- Battery chargers

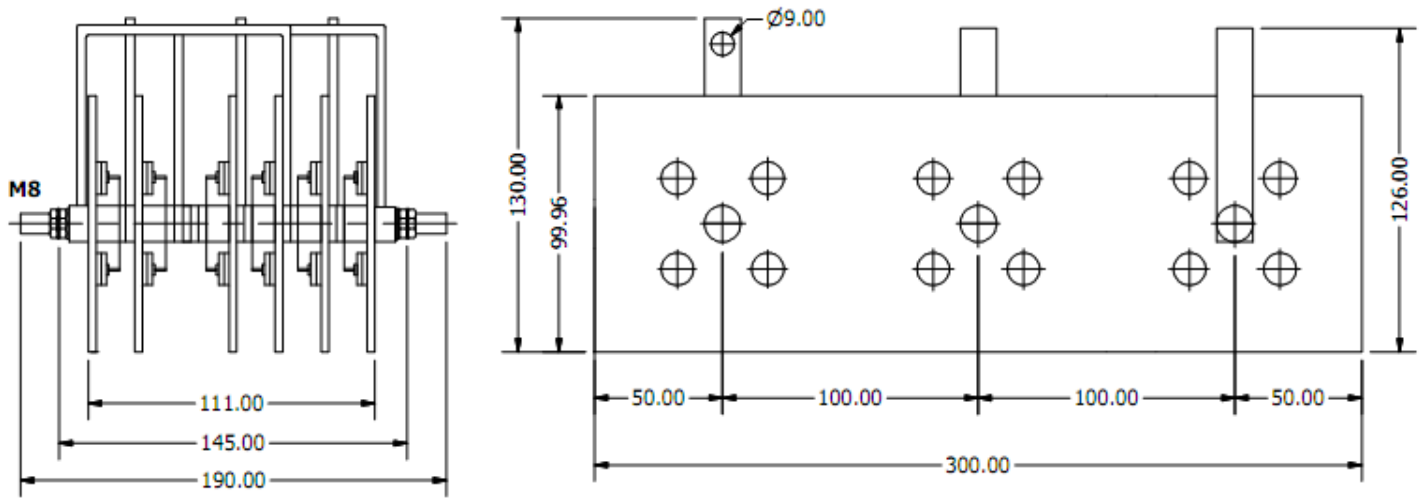


General Specifications ( $T_C = 25^{\circ}\text{C}$ , unless otherwise specified)			
Parameters	Symbol	Values	Units
Nominal output voltage @125 V <sub>AC</sub> input	V <sub>DC</sub>	165	V
Maximum nominal output current @ $T_C = 40^{\circ}\text{C}$	I <sub>DC</sub>	700	A
Cooling (forced air, fan not included)	V <sub>AIR</sub>	6	m/s
Number of plates (with M.O.V)		6 plates, 300x100	mm
Number of diodes	n	72	Pcs.

Semiconductor Specifications ( $T_C = 25^{\circ}\text{C}$ , unless otherwise specified)			
Parameters	Symbol	Values	Units
Repetitive reverse voltage	V <sub>RRM</sub>	400	V
Average forward current @ $T_C = 130^{\circ}\text{C}$	I <sub>F(AV)</sub>	35	A
Max. reverse current	I <sub>R</sub>	10	mA
Forward surge current @ $T_{Jmax}$	I <sub>FSM</sub>	450	A
On-state maximum voltage @ $T_J = 25^{\circ}\text{C}$ ,	V <sub>FM</sub>	1.2	V

Thermal and Mechanical Specifications ( $T_C = 25^{\circ}\text{C}$ , unless otherwise specified)			
Parameters	Symbol	Values	Units
Maximum operating junction temperature range	T <sub>J</sub>	- 40 to +175	$^{\circ}\text{C}$
Maximum storage temperature range	T <sub>Stg</sub>	- 40 to +175	$^{\circ}\text{C}$
Approximate weight	W	2.5	kg

## Package Outline



ALL DIMENSIONS IN MM

## Ordering Table

NRS	70	40
1	2	3

- 1 – Rectifier Stack
- 2 – Current Rating x 10 =  $I_{DC}$
- 3 –  $V_{RRM}$  = Voltage x 10