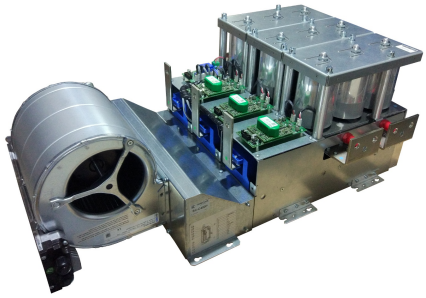
MTH-1/2B2IC Series

MODULAR IGBT HIGH POWER STACKS SERIES

PRELIMINARY TECHNICAL INFORMATION

HIGHLIGHTS

- Modular & easy-to-stack concept
- IGBT drivers included
- Capacitor bank included
- Current, voltage and temperature sensors
- Cooling system included
- Easy to reuse single stacks on a different converter



Non-contractual image

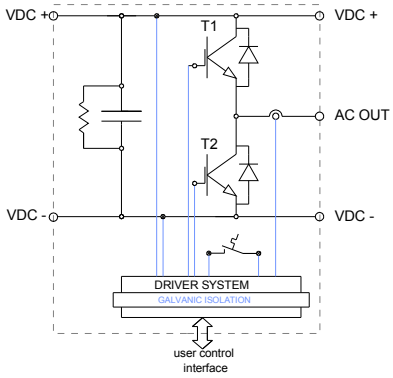
OVERVIEW

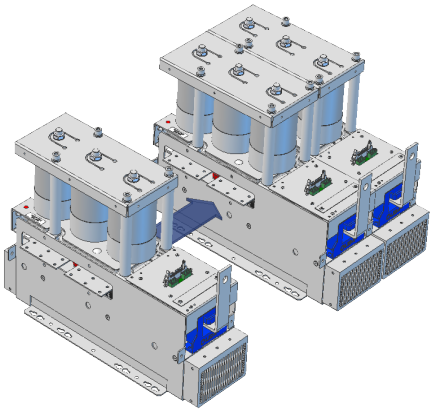
With a very optimized and compact design and a half bridge topology and capacitor bank this series of IGBT assemblies part as a constructive solution which allows a high versatility to compose customized IGBT high power equipment. By simply stacking half-bridge modules a great range of topologies can be implemented, as choppers, three-phase inverters, back-to-back converters, etc.

Additionally this series offers the possibility of parallelling modules in order to increase the output current per phase, whilst incorporating the IGBT driver, output current sensor, DC-Link voltage sensor, temperature sensor and thermal switch protection.

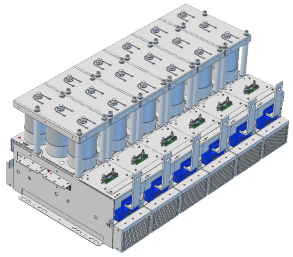
There are also available several compatible modules as power rectifier stage and suplementary capacitor bank modules in order to completely customize your power equipment. Please ask for more information.

ELECTRICAL DIAGRAM:

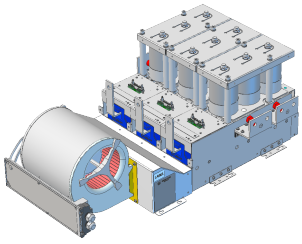




Easy to stack-&-connect.



Back to back assembly example.



3-phase inverter with radial fan attached.

POWER RANGE AND CHARACTERISTICS

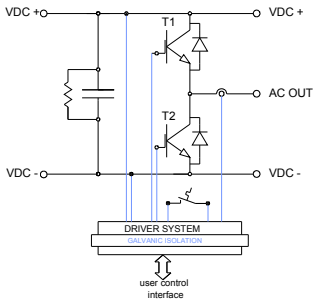
Reference	V_{DCLink} [V_{DC}]	I_{OUT} [A_{RMS}]*	P_{OUT} (B6I) [kW]
MTH-1/2B2IC0450F12xx	600	420	230
MTH-1/2B2IC0900F12xx	600	710	390
MTH-1/2B2IC1400F12xx	600	940	520
MTH-1/2B2IC0650F17xx	900	410	340
MTH-1/2B2IC1000F17xx	900	610	500

**Data given per module at: T_{AMB} = 40ºC, $V_{DC\text{-}Link}$ = 600/900 V_{DC} (table parameter), m = 0.94, V_{OUT} = 400/600 V_{AC} (respectively), PF = 0.8, f_{SW} = 2 kHz, T_J < 125ºC, T_{HK} < 90ºC, Q_{HK} ≥ 6500 CFM.*

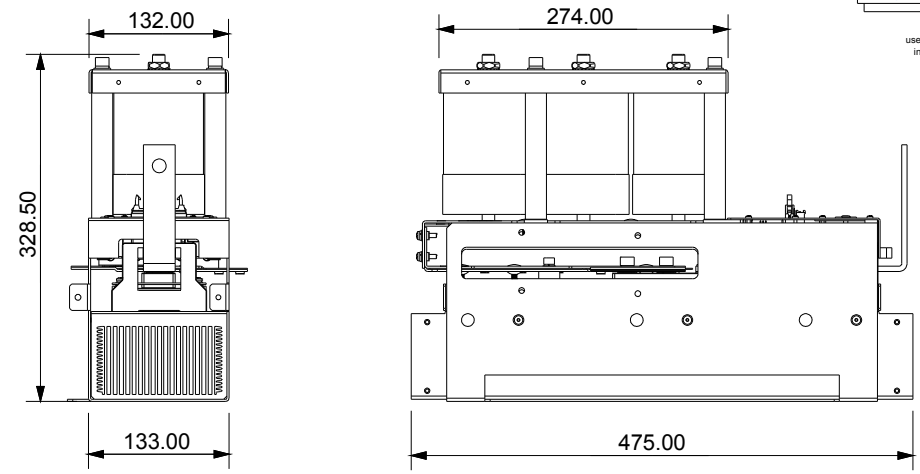
190228 Rev.:0

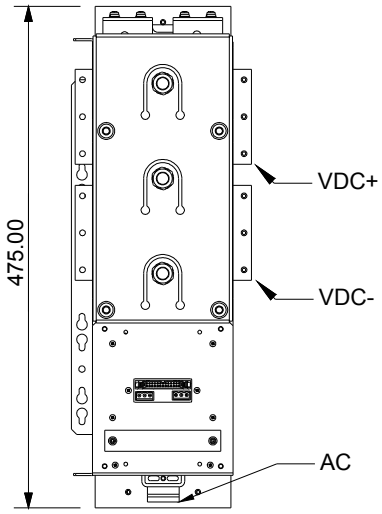
Reserves the right to change limits, test conditions and dimensions given in this data sheet at any time without previous notice.

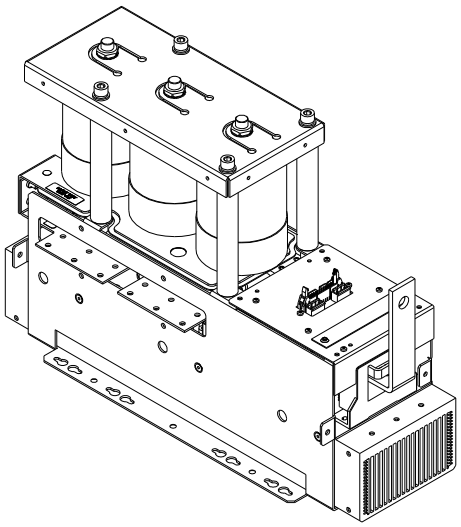
1/2B2IC BLOCK MECHANICAL DIMENSIONS



MTH-1/2B2ICxxxxxxx







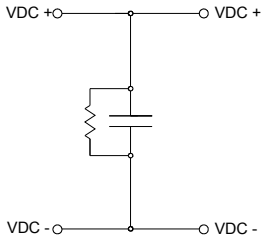
All dimensions in mm

Dimension	Typ	Units
Length	475	mm
Height	330	mm
Width	133	mm
Weight	16	kg aprox.

Reserves the right to change limits, test conditions and dimensions given in this data sheet at any time without previous notice.

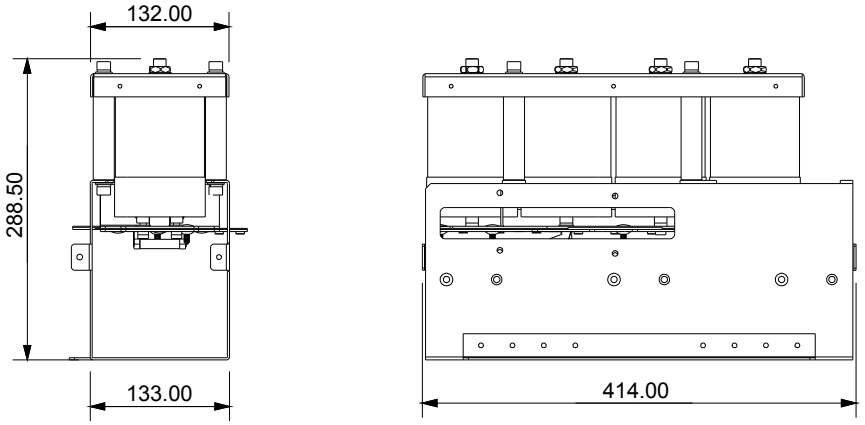
CAPACITOR BLOCKS

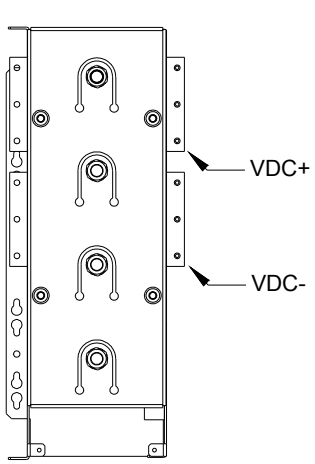
MTH-DCL01680MKP1100BA

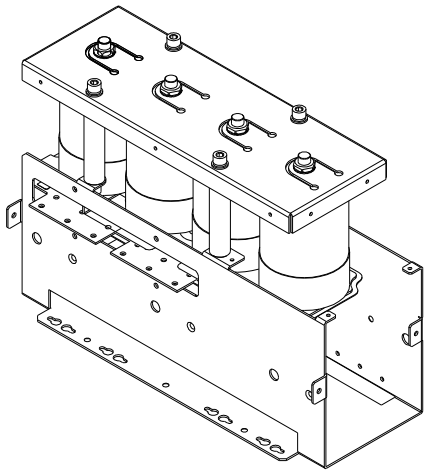


Reference	V_{DCmax}	C_N
MTH-DCL01680MKP1100BA	1100 V_{DC}	1680 µF

MECHANICAL DIMENSIONS







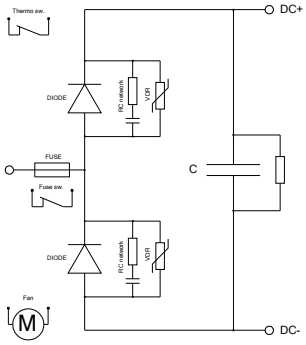
All dimensions in mm

Dimension	Typ	Units
Length	414	mm
Height	290	mm
Width	133	mm
Weight	9	kg aprox.

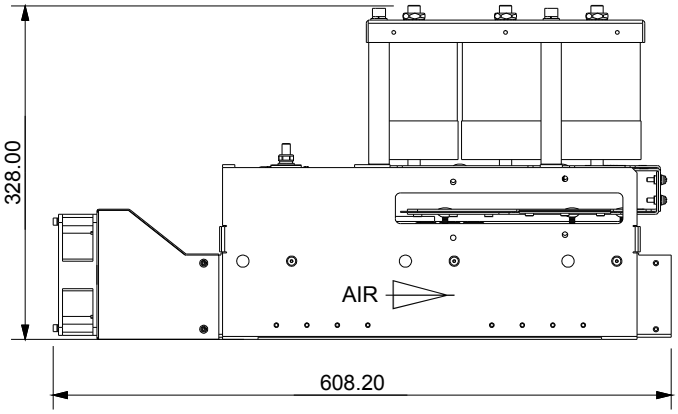
Reserves the right to change limits, test conditions and dimensions given in this data sheet at any time without previous notice.

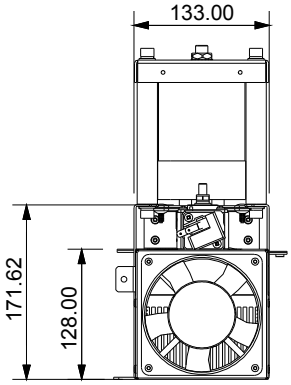
RECTIFIER BLOCKS

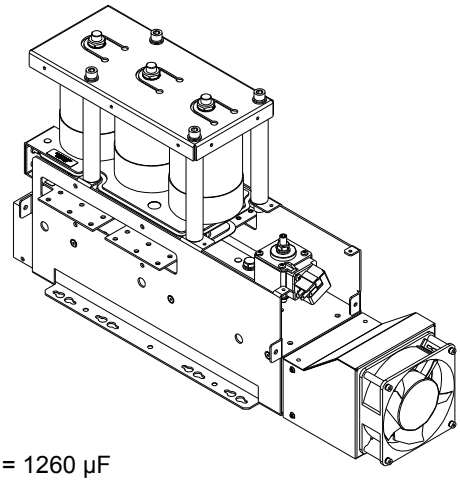
MTH-1/2B2UxxxxF16RCVTF



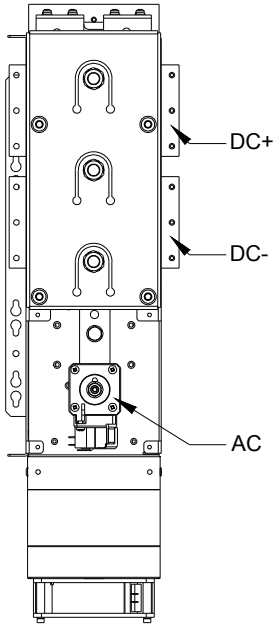
MECHANICAL DIMENSIONS







C_{NOM} = 1260 µF



All dimensions in mm

Dimension	Typ	Units
Length	610	mm
Height	330	mm
Width	133	mm
Weight	18	kg aprox.

Reserves the right to change limits, test conditions and dimensions given in this data sheet at any time without previous notice.

ANOTACIONES EN LA HOJA DE ESPECIFICACIONES:

RECTIFICADORES GUASCH, S.A. utiliza la siguiente anotación para identificar el estado del producto, en el lado izquierdo de la primera página:

Preliminary Technical Information: El producto se encuentra en proceso de diseño y desarrollo. La información presenta los datos del producto pero algunas características pueden cambiar.
Advance technical information: El producto se encuentra totalmente diseñado y las características se refieren a la fabricación en serie.
Sin anotación: Los parámetros del producto están fijados y se suministra de acuerdo con las especificaciones publicadas.

Los datos indicados en esta publicación corresponden a especificaciones de producto, queda exlcuida cualquier garantía expresa o implícita sobre sus propiedades o su aplicación, así como cualquier responsabilidad sobre daños directos o indirectos producidos por los materiales o resultantes de su aplicación. La empresa se reserva el derecho de realizar cambios en las especificaciones de los productos sin previo aviso. La información respecto a métodos de uso y aplicaciones se indica sólo como guía y no constituye garantía alguna de funcionamiento satisfactorio en un determinado equipo o aplicación. Es responsabilidad del usuario determinar la idoneidad del producto para su aplicación utilizando la información disponible y asegurarse de que la misma esta actualizada.
Cualquier nombre de producto o marca usada en esta publicación corresponde a marcas depositadas, marcas registradas o nombres protegidos por sus respectivos propietarios.

DATASHEET ANNOTATIONS:

RECTIFICADORES GUASCH, S.A. annotate datasheets in the left corner of the front page, to indicate product status:

Preliminary Technical Information: The product is in design and development. The datasheet represents the product as it is understood but details may change.
Advance Technical Information: The product design is complete and final characterisation for volume production is well in hand.
No Annotation: The product parameters are fixed and the product is available to datasheet specification.

The technical data are to specify components, not to guarantee their properties.No warranty or guarantee expressed or implied is made regarding delivery or performance. The Company reserves the right to alter without prior notice the specification of any product. Information concerning possible methods of use is provided as a guide only and does not constitute any guarantee that such methods of use will be satisfactory in a specific piece of equipment. It is the user's responsibility to fully determine the performance and suitability of any equipment using such information and to ensure that any publication or data used is up to date.
All brand names and product names used in this publication are trademarks, registered trademarks or trade names of their respective owners.

© RECTIFICADORES GUASCH, S.A.
DOCUMENTACION TECNICA, TECHNICAL DOCUMENTATION
PRODUCIDO EN ESPAÑA, PRODUCED IN SPAIN
PROHIBIDA SU VENTA, NOT FOR SALE

Your Needs, Our Solutions