

## DC BRAKE UNIT FOR RE-GENERATIVE LOAD

Contactor and IGBT Controlled Structure

Max. Protection in Regenerative Loads

In-Built Cooling Fans



They are braking resistor modules that aim to ensure maximum protection of your critical loads by increasing the operating performance of the device in re-generative loads such as CNC Machines, Electric motor loads, and to reduce your cost of ownership by extending the working life of durable materials such as batteries and capacitors. TESCOM offers solutions for all types of UPS with different braking modules according to the appropriate UPS power.

### WHAT IS RE-GENERATIVE LOAD?

An example of such loads is electric motors. Electric motors draw current from the network while rotating, but in case of a sudden force (braking effect) they start to produce electricity themselves, this energy is sent back to the source they are fed.

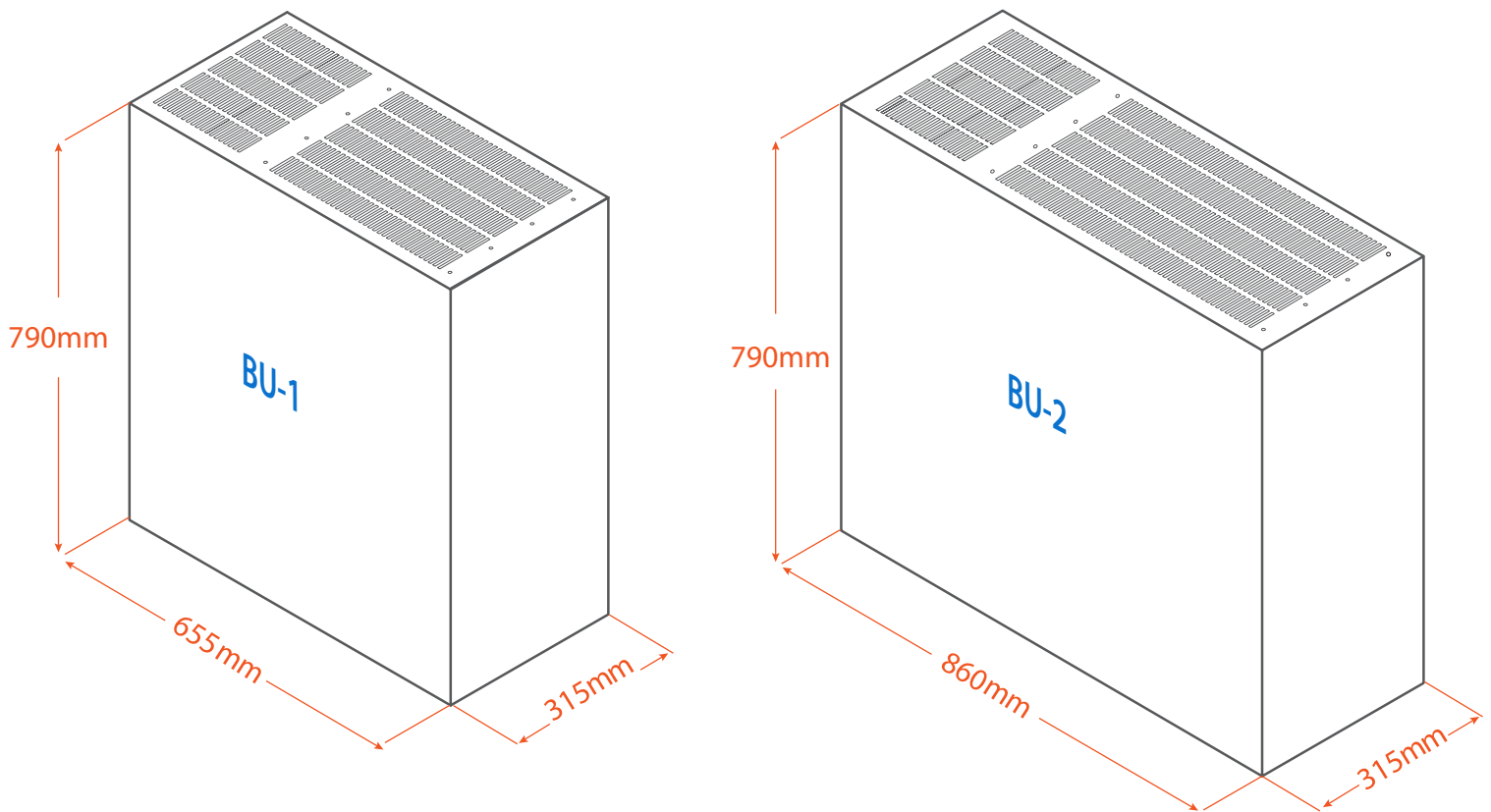
If the electric motor is supplied by the UPS, in the braking mode, the UPS applies extra energy to the DC Bus through the reverse diodes of the output power transistors, which causes the DC Bus voltage to rise.

### WORKING PRINCIPLE

By connecting to the DC Bus of the UPS, when the allowable limit value in DC rises is exceeded, it activates the resistor loads with the help of contactors driven by a transistor on it, providing the necessary voltage drop and converting the excess energy into heat energy.

In regenerative load applications (CNC Machines, Electric Motor Loads), it is recommended to use a DC Brake Unit in order to absorb the DC voltage that is pressed back into the mains (UPS) during braking.

## DC BRAKING MODULES



\* Height measurements are including wheels.

UPS POWER	XT SERIES STOCK CODE	CHASIS	DS-DX SERIES STOCK CODE	CHASIS
15KVA	pls. ask	BU-1	854010000	BU-1
30kVA	854010018	BU-1	854010010	BU-1
40kVA	854010017	BU-1	854010001	BU-1
60kVA	854010014	BU-1	854010002	BU-1
80kVA	854010015	BU-1	854010012	BU-1
100kVA	854010019	BU-1	854010003	BU-1
120kVA	854010016	BU-1	854010004	BU-1
160kVA	854010020	BU-1	854010005	BU-1
200kVA	854010021	BU-1	854010006	BU-1
250kVA	854010009	BU-2	854010013	BU-2
300kVA	pls. ask		854010007	BU-2
400KVA	pls. ask		854010008	BU-2
500KVA	pls. ask		2 x 854010013	BU-2
600KVA	pls. ask		2 x 854010007	BU-2