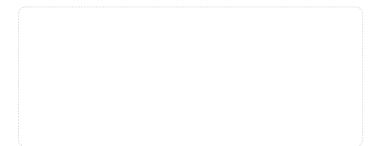
# **Dynamic and Regenerative Braking Unit Product Catalog**

Your trusted industry automation solution provider







Service line:86-755-23535967 E-mail:overseas@invt.com.cn Website:www.invt.com

SHENZHEN INVT ELECTRIC CO.,LTD. INVT Guangming Technology Building, Songbai Road, Matian, Guangming District, Shenzhen, China

Industrial Automation: Frequency Inverter

HMI Servo & Motion Control

HMI Intelligent Elevator Control System

Electric Power: SVG Solar Inverter

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## **DBU Series Dynamic Braking Unit**

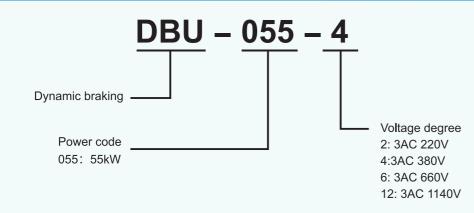
This series of products have been widely used with the products of ABB, Siemens, Mitsubishi, Schneider, Emerson, Yaskawa, Fuji, Hitachi and other international famous brands.



#### **Specifications**

- Braking mode: Dynamic braking
- Parallel mode: Support the master-slave machine in parallel connection
- Braking voltage: settable
- Response time: within 1 ms, there are multiple noise filtering algorithms
- Braking usage rate: 5 minutes of full load braking at 100% braking rate, long-time running with full load braking at 50% braking rate
- Over-temperature protection: 85°C
- Protection: over-current protection, over-temperature protection, IGBT short circuit protection and braking resistor short-circuit protection
- Common resistor is optional
- Protection degree: IP20

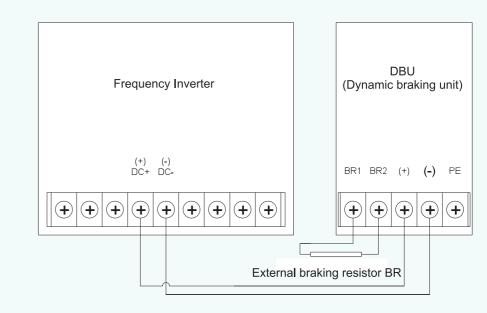
#### Nameplate Description of DBU Series Dynamic Braking Units



#### **Parameters List and Configurations of DBU Series Products**

Model	Voltage (V)	Braking Mode	Available Inverter	External dimension (H*W*D) (mm)
DBU-055-2	3AC220	Dynamic braking	11-55kW	180*110*120
DBU-055-4	3AC380	Dynamic braking	18.5-55kW	100 110 120
DBU-160-4	3AC380	Dynamic braking	132-160kW	
DBU-220-4	3AC380	Dynamic braking	185-220kW	285*180*164
DBU-315-4	3AC380	Dynamic braking	132 <b>-</b> 315kW	
DBU-350-6	3AC660	Dynamic braking	22-350kW	385*200*162

#### Wiring Diagram of the Main Circuit



Wiring diagram of the main circuit of DBU dynamic braking unit with any kind frequency inverter

#### **Application Environment of DBU Series Products**

The device has the best performance and longest service life in the following designated environment:

- Indoor, good ventilation, the altitude is not more than 1000m, no direct sunlight
- Environment temperature: -10 40°C
- Avoid high temperature, humidity, rain and water drops, the relative humidity is less than 90% RH
- To prevent electromagnetic interference, keep away from interference sources and vibration
- To prevent the invasion of powder, dust, cotton, metal powder and corrosive gas
- It is prohibited to use in dangerous environment of flammable explosive gas, liquid or solid.

## **DBU100H Series Dynamic Braking Unit for High-performance and Heavy-load**

DBU100H series dynamic braking units is designed by our company for the braking applications of high-performance and heavy-load. Its continuous braking at rated braking current can meet the requirements of customers in the application of large inertia and rapid deceleration or stopping.

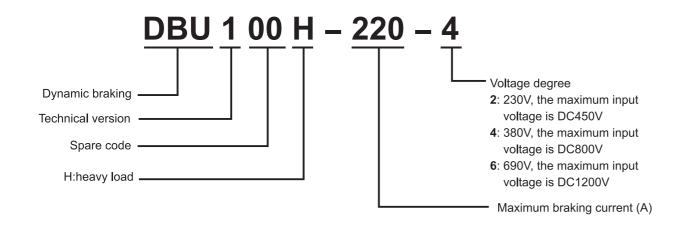
It can be widely used in the industries of elevators, looms, paper-making machinery, centrifugal machines, washing machines, drawing machines, winding machines, linkage systems, crown blocks, mining and lifting etc.



#### **Main Features**

- Three voltage degrees of 220V/380V/660V and the braking current is 60A~400A
- Multiple brake voltage thresholds can be set
- Parallel application of multiple machines
- Be applied in the application of 100% motor feedback
- Long-time running at the maximum braking current
- Meet the design requirement of EMC: IEC61800-3 the protection degree is IP20
- A variety of fault output and external fault input functions

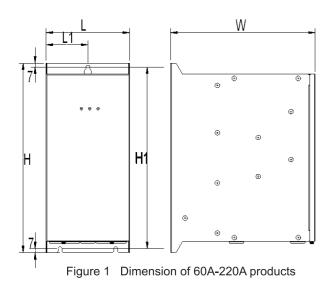
#### Nameplate Description of DBU100H Series Dynamic Braking Units



220V-15kW   220V-36kW   220V-37kW   220V-32kW   220V-32kW   220V-32kW   220V-37kW   220V-37kW   220V-37kW   220V-37kW   220V-55kW   220V-56kW   220V-56kW   220V-75kW   220V-56kW   220V-75kW   220V-56kW   220V-75kW   220V-10kkW   220V-10kW   220W-10kW   220	Power	Voltage degree (V)	Model of braking unit	Available resistance of 100% braking torque (Ω)	Dissipated power of braking resistor (kW) (10%braking)	Dissipated power of braking resistor (kW) (50%braking)	Dissipated power of braking resistor (kW) (80%braking)	Mini. braking resistor(Ω)	
220V-22kW 220V-30kW 2200	220V-15kW			9.6	2	11	18		
220V-30kW 220V-37kW 220V-45kW 220V-45kW 220V-45kW 220V-45kW 220V-45kW 220V-56kW 220V-56kW 220V-56kW 220V-56kW 220V-90kW 220kW 220k	220V-18kW		DBU100H-60-2	8	3	14	22	6.4	
220V-37kW 220V-45kW 220V 55kW 220V-55kW DBU100H-160-2 3.2 7 34 54 54 220V-55kW 220V-75kW DBU100H-160-2 1.9 11 56 90 1.8 220V-90kW Two DBU100H-160-2 1.3 9°2 43°2 66°2 2.4°2 380V-35kW DBU100H-160-4 13.2 6 28 44 11.7 380V-55kW DBU100H-160-4 10.9 7 34 54 380V-55kW DBU100H-160-4 8.9 8 41 66 6.4 380V-75kW DBU100H-160-4 4.5 11 56 90 380V-37kW DBU100H-160-4 4.5 17 83 132 4.4 380V-10kW DBU100H-160-4 4.5 17 83 132 380V-10kW DBU100H-20-4 3.7 20 99 158 3.2 380V-20kW DBU100H-30-4 2.5 30 150 240 2.2 38 188 300 380V-20kW DBU100H-30-4 2.5 30 150 240 2.2 380V-35kW DBU100H-30-4 2.8°2 21°2 105°2 168°2 380V-35kW DBU100H-30-4 2.8°2 27°2 118°2 210°2 380V-35kW DBU100H-30-4 2.8°2 27°2 380V-35kW DBU100H-30-4 2.8°2 27°2 380V-35kW DBU100H-30-4 2.8°2 27°2 380V-35kW DBU100H-400-4 2°2 38°2 186°2 300°2 1.8°2 660V-35kW DBU100H-100-6 7.6 28 41 68 108 660V-75kW 660V-55kW 660V-55kW 660V-55kW 660V-32kW DBU100H-320-6 6.1 30 150 240 5600V-220kW 660V-220kW 660V-220kW 660V-220kW 660V-220kW 660V-32kW DBU100H-320-6 6.1 30 150 240 5600V-220kW 660V-32kW DBU100H-320-6 6.1 30 150 240 5600V-32kW 660V-35kW DBU100H-320-6 6.1 30 150 240 5600V-32kW DBU100H-320-6 6.1 30 150 240 5600V-32kW 660V-35kW DBU100H-320-6 6.1 30 150 240 5600V-32kW 660V-35kW DBU100H-320-6 6.1 30 150 240 5600V-32kW 660V-35kW DBU100H-320-6 6.1 30 150 240 5600V-30kW DBU100H-320-6 3.5 53 3663 3420 6600V-35kW 660V-35kW DBU100H-320-6 3.5 53 3663 3420 6600V-35kW DBU100H-320-6 3.5 53 3663 3420 6600V-35kW DBU100H-320-6 3.5 53 360 300 480 2.8 800V-30kW BBU100H-320-6 3.5 53 360 300 480 2.8 800V-30kW BBU100H-320-6 3.5 55 30 300 480	220V-22kW			6.5	3	17	26		
3.9   6   28   44   220   220V-45kW   220V-45kW   220V-45kW   220V-45kW   220V-45kW   220V-45kW   220V-45kW   220V-45kW   220V-95kW   220V-90kW   220V-90kW   220V-90kW   220V-90kW   220V-910kW   220V-90kW   220V-910kW   220V-90kW   220V-910kW   220V-90kW   220V-910kW   220V-910kW   220V-910kW   220V-910kW   220V-910kW   220V-910kW   220V-910kW   220V-910kW   220V-910kW   220kW   220V-910kW   220kW   2	220V-30kW		DRU100H -110-2	4.8	5	23	36	3.5	
DBU100H -160-2   2.6   8   41   66   6.4	220V-37kW	220	DB010011-110-2	3.9	6	28	44	0.0	
220V-75KW DBU100H-220-2 1.9 111 56 90 1.8 220V-90kW Two 1.6 7'2 34'2 84'2 2.4'2 230V-110kW DBU100H-160-2 1.3 9'2 43'2 66'2 2.4'2 380V-37kW DBU100H-60-4 13.2 6 28 44 11.7 380V-55kW DBU100H-110-4 8.9 8 41 66 6.4 380V-75kW 380V-75kW DBU100H-110-4 4.5 11 56 90 380V-90kW DBU100H-10-4 4.5 17 83 132 4.4 380V-132kW 380V-132kW DBU100H-220-4 3.7 20 99 158 3.2 380V-132kW 380V-220kW DBU100H-320-4 2.5 30 150 240 380V-220kW 380V-220kW DBU100H-320-4 2.2 38 188 300 380V-220kW 380V-250kW DBU100H-320-4 2.2 38 188 300 380V-230kW DBU100H-320-4 2.2 24'2 118'2 188'2 2.2'2 380V-300kW DBU100H-320-4 2.2 38'2 186'2 300'2 1.8'2 2.2'2 380V-300kW DBU100H-400-4 2'2 38'2 186'2 300'2 1.8'2 2.2'2 380V-300kW DBU100H-400-4 2'2 38'2 186'2 300'2 1.8'2 660V-37kW 660V-45kW 660V-45kW 660V-45kW 660V-45kW 660V-45kW 660V-45kW 660V-45kW 660V-160kW 660V-90kW 660V-200kW 660V-200kW 660V-220kW DBU100H-320-6 6.1 30 150 240 360 360 300 480 2.8 660V-35kW DBU100H-320-6 4.3 42 210 336 38 38 38 38 300 660V-220kW DBU100H-320-6 4.3 42 210 336 378 660V-250kW DBU100H-320-6 4.3 42 210 336 378 660V-250kW DBU100H-320-6 4.3 42 210 336 378 660V-250kW DBU100H-320-6 4.8'2 38'2 186'2 300'2 5'2 5'2 5'2 5'2 5'2 5'2 5'2 5'2 5'2 5	220V-45kW	220	DD1140011 460 0	3.2	7	34	54	0.4	
220V-90kW   Two   DBU100H-160-2   1.3   3°2   43°2   66°2   2.4°2   380V-37kW   DBU100H-60-4   13.2   6   28   44   11.7   33   380V-45kW   380V-45kW   DBU100H-110-4   8.9   8   41   66   6.4   6.4   380V-75kW   380V-90kW   DBU100H-160-4   4.5   17   83   132   380V-160kW   380V-200kW   380V-220kW   2.2   33   165   264   380V-220kW   380V-220kW   2.2   33   165   264   380V-220kW   380V-220kW   2.2   33   165   264   380V-220kW   380V-250kW   2.2   380V-220kW   380V-315kW   Two   DBU100H-400-4   2° 2   38° 2   186° 2   300° 2   1.8° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2   2.2° 2	220V-55kW		DBU100H -160-2	2.6	8	41	66	2.4	
DBU100H-160-2	220V-75kW		DBU100H -220-2	1.9	11	56	90	1.8	
DBU100H-160-2	220V-90kW		Two	1.6	7*2	34*2	84*2	2.4*2	
380V-45kW   380V-55kW   380V-90kW   380V-90kW   380V-90kW   380V-10kW   380V-10kW   380V-10kW   380V-10kW   380V-10kW   380V-10kW   380V-10kW   380V-10kW   380V-200kW   380V-200kW   380V-200kW   380V-220kW   380V-220kW   380V-220kW   380V-220kW   380V-220kW   380V-220kW   380V-250kW   380V-250kW   380V-280kW   380V-280kW   380V-280kW   380V-280kW   380V-280kW   380V-280kW   380V-280kW   380V-280kW   380V-280kW   380V-250kW   380V-250kW   380V-280kW   380V-280kW   380V-280kW   380V-280kW   380V-280kW   380V-280kW   380V-350kW   380V-350kW   380V-480kW   24*2   21*2   105*2   168*2   3880V-400kW   24*2   30*2   21*2   105*2   240*2   22*2   3880V-480kW   24*2   30*2   150*2   240*2   3880V-480kW   32.7   6   28   44   660V-35kW   660V-35kW   660V-45kW   660V-45kW   660V-55kW   660V-75kW   660V-75kW   660V-480kW   660V-480kW   660V-480kW   660V-480kW   660V-480kW   660V-480kW   660V-480kW   660V-480kW   660V-220kW   660V-220kW   660V-220kW   660V-220kW   660V-220kW   660V-220kW   660V-220kW   660V-220kW   660V-250kW   660V-35kW   660V-	220V-110kW		DBU100H -160-2	1.3	9*2	43*2	66*2	2.4 2	
BBU100H-110-4   8.9   8	380V-37kW		DBU100H-60-4	13.2	6	28	44	11.7	
380V-75kW   380V-90kW   380V-110kW   380V-110kW   380V-132kW   380V-132kW   380V-200kW   380V-200kW   380V-200kW   380V-220kW   380V-220kW   380V-220kW   380V-220kW   380V-220kW   380V-220kW   380V-220kW   380V-220kW   380V-250kW   380V-250kW   380V-250kW   380V-250kW   380V-250kW   380V-250kW   380V-250kW   380V-280kW   380V-280kW   380V-280kW   380V-280kW   380V-280kW   380V-350kW   2.2 33 165 264   380V-320kW   380V-430kW   380V-420kW   380V-420kW   2.8°2 21°2 105°2 168°2 380V-430kW   380V-400kW   2.8°2 27°2 132°2 210°2 380V-400kW   380V-500kW   7wo DBU100H-400-4 2°2 38°2 186°2 300°2 1.8°2 660V-37kW   660V-37kW   660V-45kW   660V-45kW   660V-45kW   660V-45kW   660V-45kW   660V-45kW   660V-45kW   660V-40kW   660V-40kW   660V-20kW   660V-20kW   660V-20kW   660V-20kW   660V-20kW   660V-20kW   660V-20kW   660V-20kW   660V-20kW   660V-250kW   660V-250kW   660V-35kW   660V-30kW   660V-30kW   660V-30kW   660V-30kW   660V-30kW   660V-30kW   660V-30kW   660V-35kW   660V-35kW   660V-35kW   660V-35kW   660V-35kW   660V-35kW   660V-35kW   660V-35kW   660V-35kW   660V-30kW   66	380V-45kW			10.9	7	34	54		
380V-90kW   380V-110kW   380V-110kW   380V-110kW   380V-110kW   380V-132kW   380V-200kW   380V-200kW   380V-200kW   380V-200kW   380V-220kW   380V-220kW   380V-220kW   380V-250kW   380V-220kW   380V-250kW   380V-250kW   380V-315kW   380V-315kW   380V-350kW   380V-350kW   380V-30kW   380V-315kW   380V-30kW   380V-30	380V-55kW		DBU100H-110-4	8.9	8	41	66	6.4	
DBU100H-160-4   4.5   17	380V <b>-</b> 75kW			6.5	11	56	90		
380V-132kW	380V-90kW			5.4	14	68	108	4.4	
380V-160kW 380V-220kW 380V-220kW 380V-220kW 380V-220kW 380V-250kW 380V-250kW 380V-250kW 380V-250kW 380V-250kW 380V-250kW 380V-250kW 380V-350kW DBU100H-300-4 2.8°2 21°2 105°2 168°2 380V-350kW DBU100H-320-4 2.8°2 27°2 132°2 210°2 240°2 380V-350kW DBU100H-300-4 2°2 38°2 150°2 240°2 380V-350kW 660V-35kW 660V-35kW 660V-35kW 660V-35kW 660V-10kW 660V-10kW 660V-10kW 660V-10kW 660V-20kW 660V-20kW 660V-220kW 660V-220kW 660V-220kW 660V-220kW 660V-220kW 660V-250kW 660V-350kW 660V-	380V-110kW		DBU100H-160-4	4.5	17	83	132	4.4	
380V-200kW 380V-220kW 380V-220kW 380V-220kW 380V-250kW 380V-250kW 380V-250kW 380V-280kW 380V-315kW Two DBU100H-400-4 2 38 188 300 2.2 2 38 188 300 380V-315kW Two DBU100H-320-4 2 2 38 188 300 2.2 2 24*2 118*2 189*2 2.2*2 380V-350kW 380V-350kW 380V-350kW Two DBU100H-320-4 2 2.8*2 27*2 132*2 210*2 2.4*2 30*2 150*2 240*2 380V-360V-37kW 660V-37kW 660V-37kW 660V-45kW 660V-55kW 660V-55kW 660V-55kW 660V-90kW 660V-90kW 660V-90kW 660V-110kW 660V-110kW 660V-110kW 660V-110kW 660V-110kW 660V-220kW 660V-220kW 660V-220kW 660V-220kW 660V-250kW 660V-250kW 660V-250kW 660V-350kW DBU100H-320-6 4.8 38 188 300 660V-350kW 660V-350kW 660V-350kW DBU100H-320-6 4.3 42 210 336 660V-660V-250kW 660V-350kW DBU100H-320-6 4.3 42 210 336 3.4 660V-350kW 660V-350kW DBU100H-320-6 4.3 42 210 336 3.4 660V-350kW DBU100H-320-6 4.8 38 188 300 660V-350kW 660V-350kW DBU100H-320-6 4.3 42 210 336 3.4 660V-350kW DBU100H-320-6 4.8 38 188 300 660V-350kW DBU100H-320-6 4.8 38 188 300 660V-350kW DBU100H-320-6 5.5 33 165 164 660V-350kW 660V-350kW DBU100H-320-6 5.5 33 165 164 660V-360kW DBU100H-320-6 5.5 33 165 164 660V-360kW DBU100H-320-6 5.5 33 165 164 660V-360kW DBU100H-320-6 5.5 30 300 300 300 300 300 300 300 300 300	380V-132kW		DBU100H-220-4	3.7	20	99	158	3.2	
DBU100H-400-4   2.5   30   150   240   380V-220kW   2.2   33   165   264   380V-250kW   3.6*2   21*2   105*2   168*2   380V-350kW   2.8*2   24*2   118*2   189*2   2.2*2   380V-350kW   DBU100H-320-4   2.8*2   27*2   132*2   210*2   240*2   380V-350kW   DBU100H-320-4   2.8*2   27*2   33°2   150*2   240*2   240*2   380V-350kW   2.4*2   30*2   150*2   240*2   380V-350kW   26.9   7   34   54   660V-35kW   26.9   7   34   54   660V-35kW   660V-35kW   660V-35kW   660V-35kW   660V-32kW   660V-10kW   660V-10kW   660V-132kW   660V-32kW   660V-32kW   660V-220kW   660V-35kW	380V-160kW	200	DD1140011 000 4	3.1	24	120	192	2.2	
380V-250kW 380V-280kW 380V-280kW 380V-315kW Two DBU100H-320-4 2 38 188 300 3.6*2 21*2 105*2 168*2 380V-350kW DBU100H-320-4 2.8*2 27*2 132*2 210*2 380V-400kW 2.4*2 30*2 150*2 240*2 380V-500kW Two DBU100H-400-4 2*2 38*2 186*2 300*2 1.8*2 660V-37kW 660V-45kW 26.9 7 34 54 660V-55kW DBU100H-110-6 660V-90kW 13.4 14 68 108 660V-110kW 11 17 83 132 660V-132kW DBU100H-160-6 7.6 24 120 192 660V-200kW 660V-200kW 660V-200kW 660V-250kW 660V-250kW DBU100H-320-6 660V-350kW DBU100H-320-6 3.8 47 236 378 660V-350kW 660V-350kW DBU100H-320-6 3.8 47 236 378 660V-350kW 660V-350kW DBU100H-320-6 3 60 300 480 2.8 660V-500kW DBU100H-320-6 3 60 300 480 2.8 660V-500kW Two DBU100H-320-6 4.8*2 38*2 186*2 300*2	380V-200kW	380	DBU100H-320-4	2.5	30	150	240	2.2	
380V-250kW 380V-250kW 380V-315kW 380V-350kW 380V-400kW DBU100H-320-4 2.8*2 27*2 132*2 210*2 380V-400kW Two DBU100H-400-4 2*2 38*2 186*2 300*2 1.8*2 660V-37kW 660V-45kW 660V-75kW 660V-75kW 660V-10kW 660V-10kW 660V-200kW 660V-220kW 660V-220kW 660V-250kW 660V-250kW 660V-250kW 660V-250kW 660V-250kW 660V-250kW 660V-250kW 660V-35kW 660V-35k	380V-220kW		DBU100H-400-4	2.2	33	165	264	1.8	
380V-315kW 380V-350kW 380V-350kW 380V-400kW 380V-400kW 380V-500kW Two DBU100H-320-4 2.8*2 27*2 132*2 210*2 2.2*2 38*2 150*2 240*2 380V-500kW Two DBU100H-400-4 2*2 38*2 186*2 300*2 1.8*2 660V-37kW 660V-45kW 660V-45kW 660V-75kW 660V-75kW 660V-90kW 13.4 14 68 108 660V-110kW 660V-110kW 660V-12kW 660V-132kW 660V-132kW 660V-200kW 660V-200kW 660V-200kW 660V-200kW 660V-250kW 660V-250kW 660V-250kW 660V-250kW 660V-250kW 660V-350kW 660V-350kW 660V-315kW 660V-315kW 660V-350kW 660V-400kW DBU100H-320-6 3 60 300 480 2.8 4.8*2 38*2 186*2 300*2 5*2	380V-250kW			2	38	188	300		
380V-350kW 380V-400kW 2.8*2 27*2 132*2 210*2 380V-400kW 380V-400kW 500kW	380V-280kW			3.6*2	21*2	105*2	168*2		
380V-350kW 380V-400kW 2.4*2 30*2 150*2 240*2 380V-400kW 380V-500kW Two DBU100H-400-4 2*2 38*2 186*2 300*2 1.8*2 660V-37kW 32.7 6 28 44 660V-45kW 660V-55kW 660V-75kW 660V-75kW 660V-75kW 660V-110kW 11 17 83 132 600V-110kW 660V-110kW 660V-110kW 660V-10kW 660V-200kW 660V-200kW 660V-200kW 660V-250kW 660V-250kW 660V-250kW 660V-250kW 660V-315kW 660V-315kW 660V-315kW 660V-350kW 660V-350kW 660V-350kW 660V-350kW 660V-350kW 660V-350kW 660V-350kW 660V-30kW 660V-350kW 660V-300kW 660V-350kW 66	380V-315kW		T	3.2*2	24*2	118*2	189*2	0.0*0	
380V-400kW 380V-500kW Two DBU100H-400-4 2*2 38*2 186*2 300*2 1.8*2 660V-37kW 660V-45kW 660V-55kW 660V-75kW 660V-75kW 660V-10kW 660V-10kW 660V-10kW 660V-20kW 660V-220kW 660V-220kW 660V-220kW 660V-220kW 660V-235kW 660V-315kW 660V-315	380V-350kW			2.8*2	27*2	132*2	210*2	2.2^2	
660V-37kW 660V-45kW 26.9 7 34 54 660V-55kW 660V-75kW 660V-75kW 660V-90kW 13.4 14 68 108 660V-110kW 660V-110kW 11 17 83 132 660V-132kW 660V-132kW 660V-160kW 660V-200kW 660V-200kW 660V-200kW 660V-220kW 660V-220kW 660V-250kW 660V-250kW 660V-315kW 660V-350kW 660V-350kW 660V-350kW 660V-350kW 660V-350kW 660V-350kW 660V-350kW 660V-300kW 660V-300kW 660V-300kW 660V-300kW 660V-300kW 660V-300kW 660V-350kW 660V-300kW 660V-300k	380V-400kW		220100110201	2.4*2	30*2	150*2	240*2		
DBU100H-110-6   DBU100H-110-6   DBU100H-110-6   DBU100H-110-6   DBU100H-160-6   DBU100H-220-6   DBU100H-320-6   DBU100H-320-	380V-500kW		Two DBU100H-400-4	2*2	38*2	186*2	300*2	1.8*2	
660V-55kW         DBU100H-110-6         22         8         41         66         90         10           660V-90kW         13.4         14         68         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108         108	660V-37kW			32.7	6	28	44		
660V-75kW 660V-90kW 660V-90kW 660V-110kW 660V-110kW 660V-120kW 660V-220kW 660V-220kW 660V-220kW 660V-220kW 660V-280kW 660V-315kW 660V-315kW 660V-315kW 660V-350kW 660V-30kW 660V-400kW 660V-400kW 660V-500kW	660V-45kW			26.9	7	34	54		
660V-75kW 660V-90kW 660V-110kW 660V-110kW 660V-132kW 660V-160kW 660V-200kW 660V-220kW 660V-220kW 660V-220kW 660V-250kW 660V-250kW 660V-250kW 660V-315kW 660V-315kW 660V-350kW 660V-350kW 660V-400kW DBU100H-320-6 3.8 47 236 378 660V-400kW 660V-400kW DBU100H-320-6 3 60 300 480 2.8  Two DBU100H-220-6  Two DBU100H-220-6  13.4 14 68 108  108  108  108  109  11 17 83 132  6.9  6.9  6.9  6.1 30 150 240  5  5  33 165 164  5  4.8 38 188 300  680V-250kW 660V-280kW 660V-315kW 7  660V-350kW 660V-350kW 7  660V-350kW 7  660V-400kW 7  Two DBU100H-320-6  4.8*2 38*2 186*2 300*2	660V-55kW		DD1140011 440 0	22	8	41	66	40	
660V-110kW 660V-132kW 660V-160kW 660V-200kW 660V-220kW 660V-220kW 660V-250kW 660V-250kW 660V-315kW 660V-315kW 660V-350kW	660V-75kW		DBU100H-110-6	16.1	11	56	90	10	
660V-110kW 660V-132kW 660V-160kW 660V-200kW 660V-220kW 660V-220kW 660V-250kW 660V-250kW 660V-315kW 660V-315kW 660V-350kW	660V-90kW			13.4	14	68	108		
660V-132kW 660V-160kW 660 DBU100H-160-6 7.6 24 120 192 6.9 6.0 DBU100H-220-6 5.5 33 165 164 6.0 660V-250kW 660V-250kW 660V-280kW 660V-315kW 660V-315kW 660V-350kW 660V-350kW 660V-350kW 660V-350kW 660V-350kW DBU100H-320-6 3 60 300 480 2.8 660V-500kW Two DBU100H-320-6 4.8*2 38*2 186*2 300*2 5*2	660V-110kW								
660V-160kW 660V-200kW 660 DBU100H-220-6	660V-132kW							0.0	
660V-220kW 660V-220kW 660V-220kW 660V-250kW 660V-250kW 660V-250kW 660V-280kW 660V-315kW 660V-315kW 660V-350kW 3.5 53 263 420 660V-400kW DBU100H-320-6 3 60 300 480 2.8 660V-500kW Two DBU100H-220-6 5*2			DBU100H-160-6					6.9	
660V-220kW 660V-250kW 4.8 38 188 300 660V-280kW DBU100H-320-6 4.3 42 210 336 3.4 660V-315kW 3.5 53 263 420 660V-400kW DBU100H-320-6 3 60 300 480 2.8 660V-500kW Two DBU100H-220-6 5*2		660	DDI MOOLL SOO S					-	
660V-250kW 660V-280kW 660V-315kW 660V-315kW 660V-350kW 660V-400kW DBU100H-320-6 3.8 4.8 38 188 300 3.4 3.4 210 336 3.7 3.4 660V-350kW 3.5 53 263 420 660V-400kW DBU100H-320-6 3 60 300 480 2.8 660V-500kW Two DBU100H-220-6 5*2			DBU100H-220-6					5	
660V-280kW DBU100H-320-6 4.3 42 210 336 3.4 660V-315kW 3.8 47 236 378 3.4 660V-350kW DBU100H-320-6 3 60 300 480 2.8 660V-500kW Two DBU100H-220-6 5*2									
3.8 47 236 378 660V-315kW 660V-350kW 3.5 53 263 420 660V-400kW DBU100H-320-6 3 60 300 480 2.8 660V-500kW Two DBU100H-220-6 4.8*2 38*2 186*2 300*2 5*2	660V-280kW		DD11100H 220 6						
660V-350kW 3.5 53 263 420 660V-400kW DBU100H-320-6 3 60 300 480 2.8 660V-500kW Two DBU100H-220-6 4.8*2 38*2 186*2 300*2 5*2			DDU 100H-320-6					3.4	
660V-400kW DBU100H-320-6 3 60 300 480 2.8 660V-500kW Two DBU100H-220-6 38*2 186*2 300*2 5*2									
660V-500kW 4.8*2 38*2 186*2 300*2 5*2			DBU100H-320-6					2.8	
Two DBU100H-220-6 5*2				4.8*2					
	660V-560kW		Two DBU100H-220-6	4.4*2	42*2	210*2	336*2	5*2	

Note: The wiring diagram of the main circuit of DBU100H is the same as DBU series products.

#### **External Dimension of DBU100H Series Products**



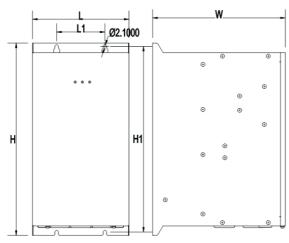


Figure 2 Dimension of 320A-400A products

Model	L(mm)	L1(mm)	W(mm)	H(mm)	H1(mm)
DBU100H-060-2					
DBU100H-060-4	130	65	163	260	246
DBU100H-110-2					
DBU100H-110-4					
DBU100H-110-6			260	340	326
DBU100H-160-2		75			
DBU100H-160-4	150				
DBU100H-160-6	150				
DBU100H-220-2					
DBU100H-220-4					
DBU100H-220-6					
DBU100H-320-4				405	
DBU100H-320-6	200	100	275		391
DBU100H-400-4					

### **RBU Series Regenerative Braking Unit**

RBU series regenerative braking units can feed the regenerative power during motor operation back to the grid, saving the conventional energy consumption of the braking units on resistors. It is suitable for the application which needs large renewable energy during motor running.

RBU series products are applicable to all general inverters of the 380V, 660V and 1140V. At present, it has been widely used in hoisting, mining, centrifugal machines, oil field pumping units and other industry fields.

This series of products have been widely used with the products of ABB, Siemens, Mitsubishi, Schneider, Emerson, Yaskawa, Fuji and other international famous brands.

Specially, it can be suitable for all kinds of elevator inverters.

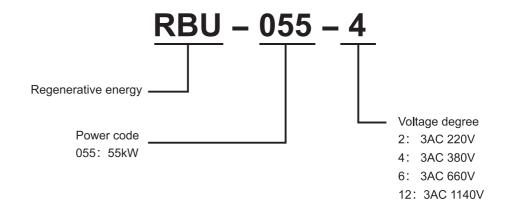
- Flexible feedback, safe operation of the elevator inverter without impact
- Noise filtering, no pollution and interference to other equipment and grid
- No power consumption of resistor braking, and change the operation environment of equipments totally
- Air conditioning is not needed according to the situation, to save the cost of air conditioning equipments and the power consumption



#### **Specifications**

- Braking mode: Regenerative braking
- Response time:Within 2 ms, there are multiple noise filtering algorithm
- Grid voltage: 3AC 380V/660V/1140V (depend on model)
- Grid frequency: 50HZ/60HZ
- Operation voltage: settable
- Braking torque: 150%
- Regenerative mode: 120 degree of current feedback
- Current distortion: <5%
- Protection: over-current protection, over-temperature protection, over-voltage protection and short circuit protection
- Protection degree: IP20

Nameplate Description of RBU Series Regenerative Braking Units



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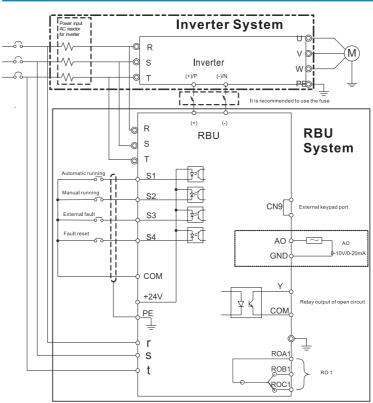
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#### Product Models of RBU Series Products

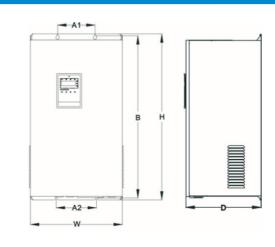
Model	Input voltage(V)	Rated capacity(kW)	Rated current at DC side(A)	Rated current at AC side(A)
RBU-7R5-4		7.5	13	10
RBU-011-4		11	19	15
RBU-015-4		15	26	20
RBU-018-4		18.5	32	25
RBU-022-4		22	37	30
RBU-030-4		30	51	40
RBU-037-4		37	64	50
RBU-045-4		45	77	60
RBU-055-4	380	55	96	75
RBU-075-4		75	128	100
RBU-090-4		90	150	120
RBU-110-4		110	183	145
RBU-132-4		132	220	176
RBU-160-4		160	267	213
RBU-185-4		185	308	246
RBU-200-4		200	333	266
RBU-220-4		220	366	292
RBU-055-6		55	52	42
RBU-075-6		75	71	56
RBU-090-6		90	86	68
RBU-110-6		110	105	84
RBU-132-6	660	132	126	100
RBU-160-6	660	160	152	122
RBU-185-6		185	176	140
RBU-200-6		200	190	152
RBU-220-6		220	209	167
RBU-250-6		250	238	190
RBU-055-12	1140	55	30	24
RBU-160-12	1140	160	90	72

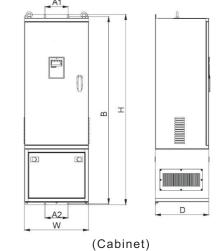
#### Installation Wiring



Wiring diagram of RBU-380V regenerative braking unit with any kind frequency inverter

#### **External Dimension of RBU Series Products**





(Wall mountable)	
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Voltage degree (V)	Power (kW)	A1 (mm) Installa	A2 (mm) tion dim	B (mm) ension	H (mm) Exter	W (mm) nal dime	D (mm) ension	Installation hole (mm)
380(wall mountable)	7.5-22	130	140	401.5	415	240	216	6
	30-75	130	140	563.5	577	220	236	6
	90-220	130	140	563.5	577	320	261	6
660(wall mountable)	55-250	130	140	563.5	577	320	261	6
1140(cabinet)	55-160	1	1	1	1064	360	300	6

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## **RBU100H Series Regenerative Braking Unit for High-performance and Heavy-load**

RBU100H series regenerative braking units is designed by our company for the braking applications of high-performance and heavy-load. Its continuous braking at rated regenerative current can meet the requirements of customers in the application of large inertia and rapid deceleration or stopping, at the same time, the inertia mechanical energy can be feed back to the grid to save the energy cost.

It can be widely used in the industries of elevators, centrifugal machines, washing machines, building hoisting, oil fields, crown blocks, ports, mining and lifting etc.

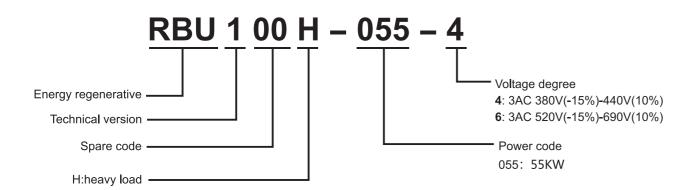
This series of products have been widely used with the products of ABB, Siemens, Mitsubishi, Schneider, Emerson, Yaskawa, Fuji, Hitachi and other international famous brands.



#### **Main Features**

- Two voltage degrees of 400V/660V and the single adapter power can be up to 400V 250kW/660V 400kW
- Flexible setting of regenerative voltage threshold through software
- Keypad or terminal control can be selected through the keypad setting, and the automatic and manual mode can be switched through the keypad or terminal signal
- Parallel application of multiple machines, to meet the usage requirements of larger capacity
- Be applied in the application of 100% motor feedback
- Long-time running at the maximum regenerative current
- To meet the design requirement of EMC: IEC61800-3, the protection degree is IP20
- A variety of fault output and external fault input functions

#### Nameplate Description of RBU100H Series Regenerative Units

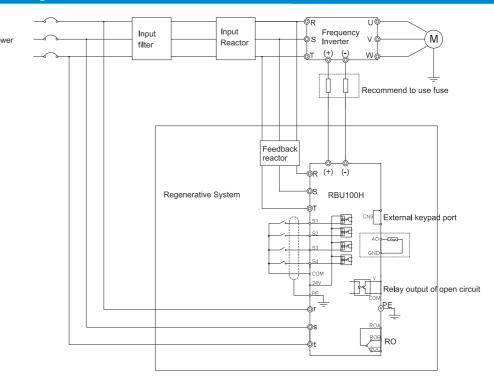


#### **Product Models of RBU100H Series Products**

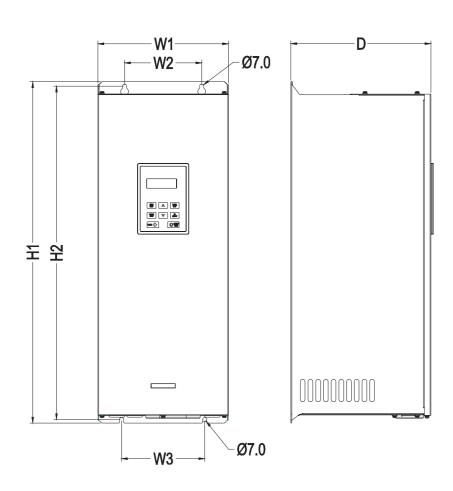
Model	Input voltage(V)	Rated capacity(kW)	Rated current at DC side(A)	Rated current at AC side(A)
RBU100H-022-4		22	37	30
RBU100H-030-4		30	51	40
RBU100H-045-4		45	77	60
RBU100H-055-4		55	96	75
RBU100H-090-4	400	90	150	120
RBU100H-110-4	400	110	183	145
RBU100H-132-4		132	220	176
RBU100H-160-4		160	267	213
RBU100H-200-4		200	333	266
RBU100H-250-4		250	417	330
RBU100H-055-6		55	52	42
RBU100H-090-6		90	86	68
RBU100H-160-6	660	160	152	122
RBU100H-200-6	660	200	190	152
RBU100H-315-6		315	300	230
RBU100H-400-6		400	400	330

It is necessary to install the external reactors because the structure of RBU100H regenerative units and the dimension and size of the reactor needs to be confirmed when ordered.

#### **Installation Wiring**



Wiring diagram of RBU100H-380V regenerative braking unit with any kind frequency inverter



Voltage	Power	Installation dimension			Exte	Installation		
degree	degree Power	W2(mm)	W3(mm)	H2(mm)	W1(mm)	H1(mm)	D(mm)	hole(mm)
	22 <b>-</b> 45kW	130	140	563.5	220	577	236	7
400V	55-132kW	130	140	563.5	320	577	261	7
	160-250kW	250	250	732	440	750	326.2	9
660)/	55-160kW	130	140	563.5	320	577	261	7
660V	200-400kW	250	250	732	440	750	326.2	9

### **Sales Network**



- India subsidiary company in Mumbai
  Russia representative office in Moscow
  Brazil representative office in Sao Paulo
  Exported to more than 60 countries and regions