

# **RCU Series** **Regenerative Converter Unit**

**\$\$ Convert Waste Energy into Revenue \$\$**

**Affordable Alternative to Dynamic Braking Resistors**

A low-cost and reliable way to reclaim energy normally wasted as heat in applications with significant or frequent regeneration, including:

**Vertical Lift**

- Elevators
- Hoists

**Machine Tools**

**Web Machinery**

**High Inertia Systems**

- Punch presses
- Centrifuges
- Fans
- Flywheels

The RCU converts DC into 3-phase AC and feeds it back to the line.

*It is also ideal for use in renewable energy systems:*

- Solar/photovoltaic
- Wind turbine
- Fuel cell

## **Features**

- Easy Installation and Operation – 5 wire connection
- Low Harmonics – integrated LC filtering
- Over 95% efficiency
- Units can be parallel-connected for higher capacity
- Auto restart after power loss

## **Benefits**

- Electric power savings
  - Returns regenerated power to the line instead of wasting it as heat in dynamic braking resistors
  - Reduces heat load for air conditioning
- Fast pay-back
- “Green” solution



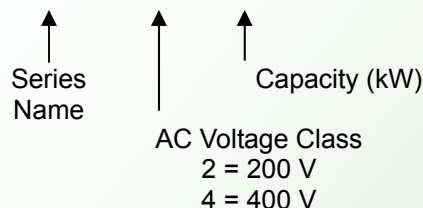
**RCU – An economical solution for an energy-conscious world**

Contact your local Hitachi Inverter distributor for pricing and availability

# RCU Series

## MODEL NUMBER FOR ORDERING

### RCU-2011



## Available Models

200 V Class	400 V Class	Power Rating
RCU-2011	RCU-4011	11 kW
RCU-2015	RCU-4015	15 kW
RCU-2022	RCU-4022	22 kW
	RCU-4030	30 kW

## Specifications

Power Connections	AC Line (L1/L2/L3)	230 VAC, $\pm 10\%$ 380 – 460 VAC, $\pm 10\%$ 3-phase, 50-60 Hz
	DC Bus (P/N)	Threshold automatically set
Power Factor		Greater than 0.90
Efficiency		95%
Current Limit		100% DC rating, inverse time overload trip
Environment	Operating Temperature	-10 to 40 degrees C
	Storage Temperature	-25 to 65 degrees C
	Humidity	Below 90% relative humidity (non-condensing)
Display Indications		Regenerative current Ready Fault Code
Protective Functions		Overheat, over current, over voltage, low voltage, short, phase error, etc.
Warranty		12/18 months from date of installation/sale

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