

OFFICIAL MODEL-SPECIFIC GUIDE

# Installation Instructions

## IC695ACC400-AA

PACSystems RX3i energy packs · CPU energy pack

### 01 VERIFIED CONFIGURATION

|                   |                             |
|-------------------|-----------------------------|
| Compatible CPUs   | IC695CPE305 and IC695CPE310 |
| Connection cable  | IC695CBL001                 |
| Cable length      | 0.91 m (3 ft)               |
| Charge source     | RX3i 24 V DC                |
| Mounting position | Left side of an RX3i module |

### 02 DOCUMENTED INSTALLATION SCOPE

- Engage the upper mounting hooks on the supporting RX3i module.
- Rotate the lower edge into place until the latch engages.
- Connect IC695CBL001 between the Energy Pack and CPU connector.

#### INSTALLATION CHECK

Confirm the complete article number, installed hardware and site procedure before work.

### Installation

The Energy Pack is mounted on the left side of an RX3i module. To avoid taking up a backplane slot, it should be mounted on the module (usually a power supply) in slot 0 of the rack. It is connected to the CPU by cable IC695CBL001.

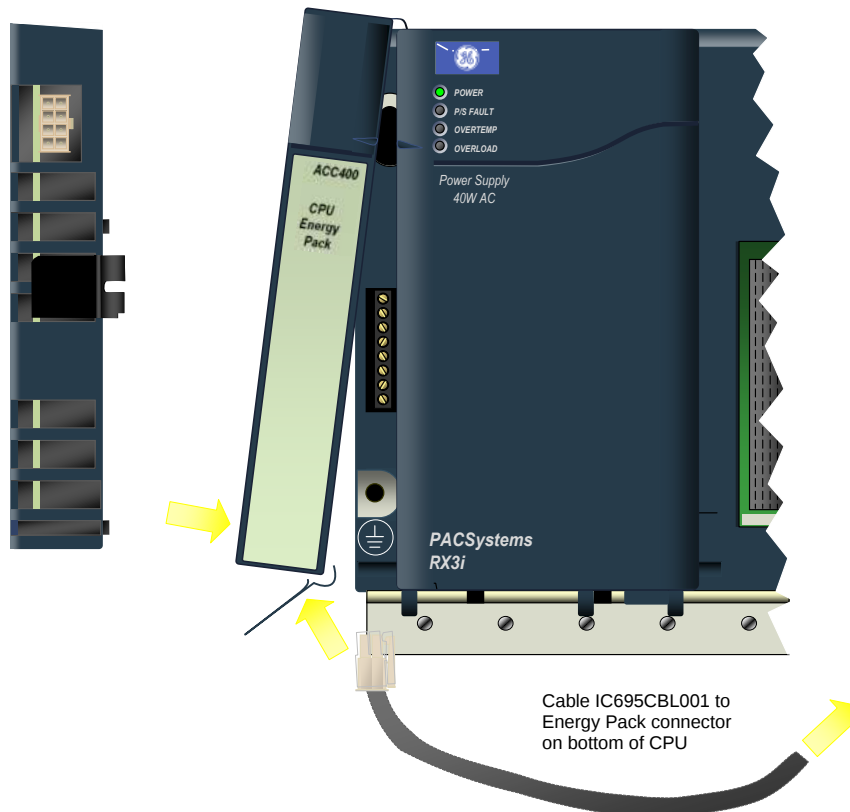
Note that, when mounted on a module in slot 0, the Energy Pack will extend approximately 13mm (0.5") beyond the left side of the backplane.

To install the Energy Pack:

1. Engage the Energy Pack's mounting hooks on the frame of the module as shown in the figure below.
2. Rotate the bottom of the Energy Pack into place, engaging the bottom hooks. The latch will snap into place.
3. Connect the IC695CBL001 cable from the connector on the bottom of the Energy Pack to the corresponding connector on the bottom of the CPU.

**Energy Pack  
Bottom View**

**Energy Pack Front View, Installation**



## OFFICIAL MOUNTING AND WIRING REFERENCE

IC695ACC400

3  
GFK-2724

### Operation

**Note:** When the Energy Pack is powered up for the first time, or is in a system that has been powered down long enough to completely discharge the Energy Pack, it may require a few seconds for it to charge to its operating level. The Energy Pack will report a Charging state to the CPU during this time.

The Energy Pack provides the following status information to the CPU, which the CPU uses to generate LED indications and fault messages. For details on these indications and faults, refer to the CPU user documentation.

- Charging:** The Energy Pack is charging; not yet charged above the minimum operating voltage.
- Fault:** A hardware fault exists in the Energy Pack.
- Low capacitance:** The Energy Pack is near its end of life and should be replaced.
- Charged:** The Energy Pack is charged above its minimum operating voltage and is ready to support CPU operation.

### Replacement Schedule

Replacement schedules for Energy Pack modules can be based on the following estimates.

#### Energy Pack Typical Life Expectancy

| Surrounding Air Temperature | Typical Life Expectancy |
|-----------------------------|-------------------------|
| 0°C                         | 10+ years               |
| 10°C                        | 10+ years               |
| 20°C                        | 10+ years               |
| 30°C                        | 10+ years               |
| 40°C                        | 10+ years               |
| 50°C                        | 10+ years               |
| 60°C                        | 4.5 years               |

### Diagnostics

**Note:** Any testing of this unit should be performed only by qualified personnel who are trained in electrical safety practices and procedures. This unit is not user-serviceable.

### IC695CBL001 Cable Specifications

This cable uses straight-through end-to-end wiring (pin 1 to pin 1, etc.).

|                |                                                                                                                                                         |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crimp housing  | Material: Nylon 66 Or Equivalent                                                                                                                        |
|                | UL rating: UL 94V-0                                                                                                                                     |
|                | Material: Phosphorous bronze                                                                                                                            |
| Crimp contact  | Current rating: 3.8 AMPS AT 95°C                                                                                                                        |
|                | Plating: 10μ inches minimum gold on contact area and 150μ inches minimum tin over on solder area and 50μ inches nickel under plating on entire material |
|                | Gauge: 24AWG                                                                                                                                            |
| Cables         | Insulation: PVC                                                                                                                                         |
|                | Conductors: TINNED COPPER                                                                                                                               |
|                | Voltage Rating: 300 VAC                                                                                                                                 |
| Connector type | Samtec IPD1-04-D-K                                                                                                                                      |