

# ICT DIN Series Power Distribution Unit Quick Start Guide



## **Risk of serious personal injury or damage to equipment and property. Always observe the following:**

- Installation must be done by qualified technicians.
- Shut off or disconnect all DC power sources before connecting or disconnecting wiring.
- Carefully observe wiring polarity when making input and output connections.
- Securely tighten all connections.
- Do not attempt to service any internal parts. Refer all product service to an authorized ICT service facility.



## **Risk of personal injury or damage to equipment and property. Always observe the following:**

- Use wire and connectors rated for the maximum load current and size of fuse or circuit breaker in accordance with NEC Section 210.20(A) and keep cable lengths as short as practical.
- Do not energize the unit before the chassis ground is connected.
- DC-AC Inverters should not be connected to the outputs of the distribution unit.
- Unit may be hot to touch. Disconnect power and allow to cool before disconnecting wires, removing or replacing fuse.
- Ensure continuous load current through each output channel does not exceed 80% of the maximum output ratings in accordance with NEC Section 210.20(A).



## **Risk of damage to equipment, environmental hazards, loss of data and other undesirable consequences. Always observe the following:**

- Third-party surge suppression devices must be utilized to protect every exposed DC power conductor and exposed data cables. These protection devices must be installed at both ends of the exposed conductor, in close proximity to installed equipment. Periodically inspect these surge protection devices for proper function.

### **1 UNPACK AND INSPECT**

- Power distribution unit
- Bags containing the following:
  - Instruction manual (USB drive)
  - Two removable 6-pin DC output wire clamp connectors
  - One removable 12-pin alarm wire clamp connector

**NOTE:** In case of shipping damage, your freight carrier should be notified immediately.

### **2 PREPARE THE TOOLS AND PARTS NEEDED**

- 1/8-inch slotted screwdriver
- Wire stripper
- Fuses



Scan the QR code to download the Instruction Manual.

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### **3 MOUNT THE UNIT ON A STANDARD TS35 (EN 50022)**



Mount the DIN Series Power Supply and the DIN Series Power Distribution Unit side by side on a standard TS35 (if using the ICT DIN Series Power Supply).

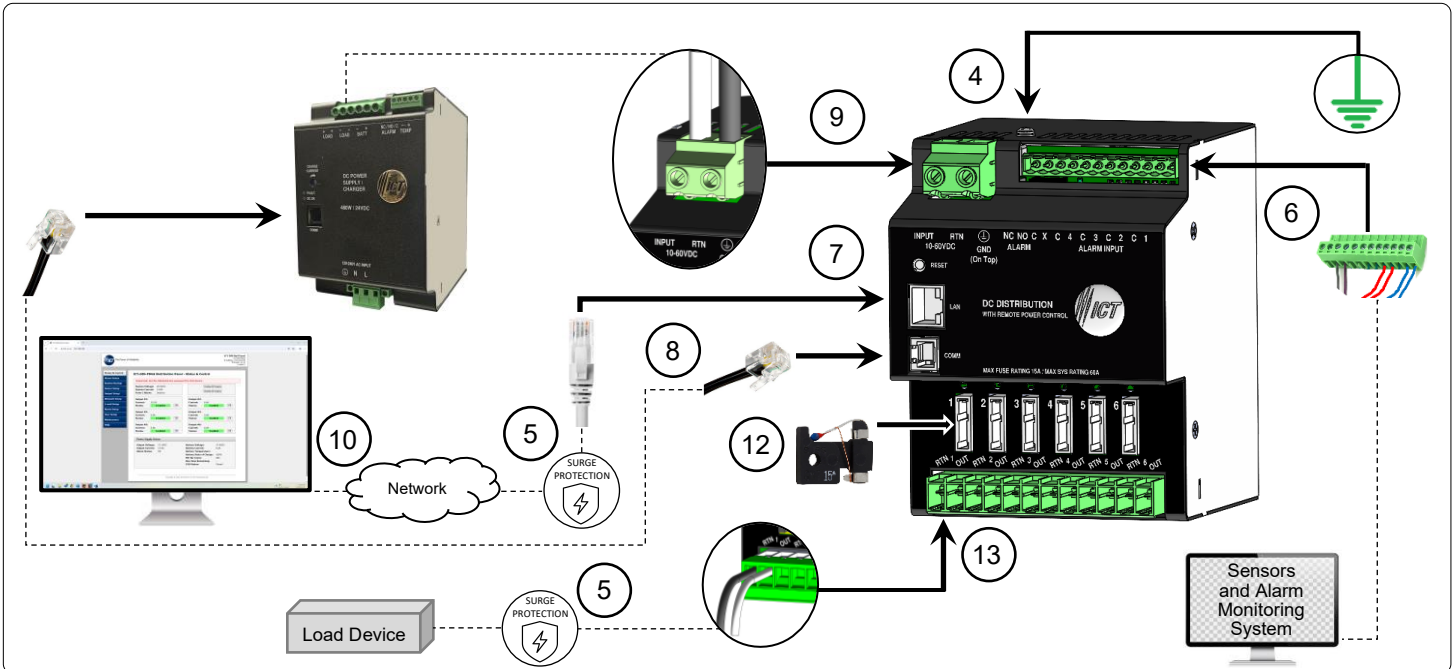
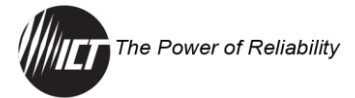


### **4 CONNECT THE CHASSIS GROUND**

Connect the chassis ground according to the site design, and in accordance with the local electrical code standards. Use a ground bonding wire that is rated to handle the maximum current rating of the unit.

# ICT DIN Series Power Distribution Unit

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### 5 CONNECT USER SUPPLIED SURGE PROTECTION DEVICE(S)

Third-party surge protection device(s) must be utilized to protect every exposed DC power conductor and exposed data cables. These protection devices must be installed at both ends of the exposed conductor, in close proximity to installed equipment. Periodically inspect these surge protection devices for proper function.

### 6 CONNECT THE SENSORS AND ALARMS IF NEEDED

- Install the 12-pin alarm wire clamp connector.
- Connect an external monitoring device through the form-C contacts, if needed, using 12–30 AWG monitoring wiring and connecting to the "ALARM" terminals on the connector.
- Connect up to four external devices through the digital alarm inputs using 12–30 AWG alarm wiring and connecting to the four "ALARM INPUT" terminals on the connector.

### 7 CONNECT THE NETWORK CABLE

Connect a 10/100 Base-T Ethernet cable to the RJ45 LAN port.

### 8 CONNECT THE RJ11 "COMM" PORT (IF USING THE ICT DIN SERIES POWER SUPPLY)

Connect the RJ11 "COMM" ports of the PDU and PSU using the data cable provided with the PSU.

### 9 CONNECT AND ENERGIZE THE DC INPUTS

- De-energize the DC source and open any disconnect switches.
- Connect the "+" output terminal of the power supply unit (PSU) to either the PDU "INPUT" terminal for a positive voltage system or "RTN" terminal for a negative voltage system. Use 6–20 AWG wire.
- Connect the "-" output terminal of the PSU to the other input terminal on the PDU. Use 6–20 AWG wire.
- Energize the DC source and close any disconnect switches.

### 10 CONFIGURE THE ICT SOFTWARE SETTINGS

Connect to the unit via Ethernet using any standard web browser on a network connected computer or phone. The default IP address is **192.168.0.180** and the default log in username is **admin** and no password required.

### 11 DE-ENERGIZE THE DC SOURCE

### 12 INSTALL THE FUSES

Install appropriately rated fuse into the fuse holder for each output terminal block to be used. The fuse only fits in one direction (color-coded flag faces upwards) — do not force wrong orientation.

### 13 CONNECT THE LOADS

- Install the two 9-pin DC output wire clamp connectors.
- Verify the polarity of the unit.
- Connect up to six external loads using appropriately rated wire inserted and secured into the six cage-clamp output connector pairs on the front of the unit. The terminals will accept 10–30 AWG wires.

### 14 VERIFY THE SYSTEM WIRING

Check that all connections to the unit are correct and properly tightened.

### 15 ENERGIZE THE LOADS

Re-energize the DC source and close any disconnect switches to energize any loads connected to the unit.