POWER DISTRIBUTION UNITS

Custom-Designed to Meet Your Application Requirements While Saving Space, Reducing Weight, and Lowering Costs

POWER DISTRIBUTION UNITS

Save Space, Reduce Weight, and Lower Costs

FLEXIBLE

- For primary and secondary power distribution

MODULAR

- Various plug-in and bus bar line-replaceable modules (LRMs)
- Installed on a panel mounting system or backplane
- LRMs may be contactors, circuit breakers, sensing units, ELCUs
- Backplanes, designed as a fault-free zone with no moving parts, are intended as a permanent installation on the mother vehicle

ADVANCED OPTIONS

- Current/voltage sensing, fuses, circuit breakers, power monitors
- Integrated generator and logic control units

SPACE AND WEIGHT SAVINGS

- Compact designs

The Experience You Need . . .

With a half-century of experience providing PDUs for the commercial and military aerospace industries, we offer significant expertise in integrating bus-bar and plug-in contactors, relays, sensors, monitors, circuit breakers, shunts, generator control units and other components into compact, lightweight PDUs.

. . . To Save Space and Weight

Custom-designed PDUs pack more capabilities into a compact space. Not only do we offer some of the smallest, lightest relays and contactors available, our in-house composites, lightweight wires, and space-efficient integration give you significant space and weight savings.

. . . and Money

TE custom PDUs not only save you valuable engineering time and resources, they are delivered ready for installation. As a plug and play solution, they install faster, lower your bill of materials, and reduces costs from procurement to installation. And they are easier to maintain.

Custom Primary Power Distribution

- **AC PDUs**—from power distribution panels to line replaceable units—using HARTMAN AC contactors with ratings to 500 amps per phase at 115/200 VAC, 400 Hz.
- **28 VDC PDUs** Distribution panels HARTMAN DC bus bar contactors rated to 1000 amps or hermetic contactors rated to 600 amps at 28 VDC.
- **270 VDC PDUs** using KILOVAC military/aerospace high-voltage DC contactors rated to 1000 amps continuous current and up to 1000 VDC.

TE Components . . . TE Technology . . . TE Know-how . . .

AMP | Agastat | CII | Hartman | Kilovac | Microdot | Nanonics | Polamco | Raychem | Rochester | DEUTSCH SEACON Phoenix | L.L. Rowe | Phoenix Optix | AFP | SEACON

Get your product to market faster with a smarter, better solution.

Secondary Power Distribution

- HARTMAN and CII relays and contactors combine for a full range of capability in secondary AC or 28VDC power distribution.
- KILOVAC ultra-small high-voltage DC contactors, rated to 150 amps continuous current, allow smaller PDU packages with true flight-rated HVDC hardware.

Advanced Products for State-of-the-Art Designs

- **Monitoring and Autonomous Trip**. HARTMAN AC Remote Power Controllers (RPCs), Remote Control Circuit Breakers (RCCBs) or Electronic Load Control Units (ELCUs) provide power monitoring and autonomous trip capabilities.
- **Ground Fault Sense and Trip Relays and Contactors** can be added for further protection.
- **Hall Effect Current Sensors** can be integrated into our HARTMAN K series bus bar 28 VDC contactors or used as standalone sensors.
- **High-Voltage DC Current Sensing**. KILOVAC KCS series contactors have embedded hall effect sensors for use as overcurrent sense contactors or as remote power controllers with customer-determined time delay on trip.
- **Fast Switching**. TE's new KDPC series SSPC, rated at 100 A at 270 VDC, delivers fast switching speed, power protection and long life.
- **Complete Packaging**. TE's broad product portfolio enhances our PDU design capability with products from our Raychem wire, cable, tubing, and molded shapes, AMP terminals and connectors, and DEUTSCH 38999 connectors.
- **Materials Expertise**. Our capabilities for providing sturdy, lightweight enclosures include both aluminum and TE composites.

270 VDC EDU incorporating KILOVAC MAP series primary and secondary distribution contactors in a compact LRU enclosure

28 VDC secondary distribution PDU using HARTMAN K series contactors, CII FCA Series relays and DEUTSCH connectors

28 VDC primary distribution PDU incorporating HARTMAN K500 bus bar-mount contactors and HECS Hall effect sensors

Primary and secondary 115 VAC, 400 Hz PDU using HARTMAN compact 200 A, 3-phase contactors and CII midrange relays

LET'S CONNECT

We make it easy to connect with our experts and are ready to provide all the support you need. Just call your local support number or visit www.te.com/industrial to chat with a Product Information Specialist.

Technical Support

te.com/support-center

North America	+1 800 522 6752	Asia Pacific	+86 400 820 6015
North America (Toll)	+1 717 986 7777	Japan	044 844 8180
EMEA/South Africa	+800 0440 5100	Australia	+61 2 9554 2695
EMEA (Toll)	+31 73 624 6999	New Zealand	+64 (0) 9 634 4580
India (Toll-Free)	+800 440 5100		

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