

# **EFFICIENT & COOL-RUNNING** POWER DISTRIBUTION UNIT (PDU)



## **POWER DISTRIBUTION UNIT**

- THIS COMPACT, EFFICIENT PDU FOR OCEAN-GOING APPLICATIONS IS BUILT TO NORSOK STANDARDS.
- CONFIGURABLE SYSTEMS OFFER DUAL INPUT CAPABILITIES (SHIPS MAINS AND CLEAN POWER) AND ANY NUMBER OF OUTPUT CIRCUITS.
- +65°C TRANSFORMERS MINIMIZE HEAT BUILD UP IN CONTROL VANS.
- REMOVABLE PANELS PROVIDE EASY ACCESS ON ALL SIDES AND TOP.
- SOLID BASE WITH FORK POCKETS FOR CONVENIENT LOADING FROM ALL FOUR SIDES (FRONT, BACK AND ENDS).



**TINITRON INC.**

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# POWER DISTRIBUTION UNIT (PDU) FEATURES & BENEFITS

**FOR OCEAN-GOING APPLICATIONS: PROVIDES SAFE, VERSATILE, RELIABLE POWER FOR UNDERWATER PLATFORMS, RIGS, ROVS AND OTHER TOOLS USED IN DEEP SEA EXPLORATION, DRILLING, MINING, MAINTENANCE, RECOVERY AND RESCUE.**

THIS COMPACT, EFFICIENT PDU OFFERS THE FOLLOWING BENEFITS.....

1. BUILT TO NORSOK STANDARDS FOR HIGHEST SAFETY STANDARDS.
2. BUILT-IN, DUAL-ZONE INSULATION RESISTANCE GUARD.
  - Detects tether problems and warns operators of impending shorts in the umbilical.
  - Shuts down circuit if short exceeds pre-selected set points.
3. MODULAR ELECTRONICS DESIGN IS SCALABLE\* TO MEET YOUR APPLICATIONS.
4. MODULAR MECHANICAL DESIGN FOR GREATER FLEXIBILITY.
5. DUAL INPUT CAPABILITY TAKES FEED FROM SHIP'S MAINS AND UPS (Clean Power).
  - Operates from standard ship voltages (i.e. 380V to 480V, 3-Phase, 50/60 HZ).
6. CONFIGURABLE OUTPUT CIRCUITS FOR POWERING AN ENDLESS VARIETY OF ROV'S, CONTROLS, HOTEL POWER, INSTRUMENTATION, LIGHTING, TETHER MANAGEMENT EQUIPMENT, WINCHES AND OTHER TOOLS.
  - Outputs up to 3,600 VAC, 3-Phase or single-phase are available.
  - Electrical interlocks require Hotel Power to be "ON" before any other power can be applied.
  - Clean DC output available without inefficient and noisy frequency converters.
7. OPTIONAL SOFT-STARTER PROVIDES SMOOTH WALK-IN FOR HEAVY-DUTY LOADS.
8. TRANSFORMERS WITH +65°C TEMP RISE MINIMIZE HEAT BUILD UP IN CONTROL VANS AND EQUIPMENT ROOMS.
9. INTERNAL PLC ALLOWS FOR COMPUTER CONTROL AND PROVIDES COMMUNICATION TO DIGITAL REMOTE CONTROLS (Analog remotes also available).
10. MERTER OPTIONS: ANALOG, DIGITAL, OR FULL HMI (TOUCH SCREEN) READ-OUT.
11. REMOVABLE PANELS WITH SAFETY INTERLOCKS PROVIDE EASY ACCESS ON ALL SIDES AND TOP (FOR EASY INSTALLATION & HOOK-UP, SOFT-STARTER PROGRAMMING, TAP CHANGING, FUSE REPLACEMENT AND OTHER ADJUSTMENTS AND REPAIRS AS NEEDED).
12. HEAVY-DUTY BASE WITH FORK POCKETS ALLOWS FOR CONVENIENT LOADING FROM ALL SIDES (FRONT, BACK AND ENDS).

\* Unit pictured is rated for 400 kVA with 4 output circuits plus fiber-optic couplers. Overall dimensions are 1800mm W x 1800mm H x 800mm D. Other PDU designs are available.  
(e.g. 750 kVA total power with 14-16 output circuits, etc.)



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