

Energy Station™ PDU

Big on Efficiency
Small on Space

True Front-Only Access • Highest Power Density • Significant Energy Savings • Seismic Certification
Most Configurable PDU • Lowest Environmental Footprint • Dual Voltage Migration • Up to 750kVA



Powersmiths Energy Station™ PDU up to 750kVA

*Industry Leaders in Energy Efficiency
since 1996*



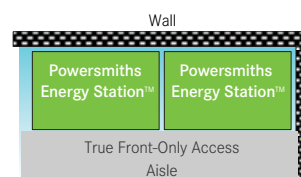
MARKET LEADER IN ENERGY EFFICIENCY

- Up to 99.4% efficiency
- Save significant energy & operating costs
- Lowers UPS load & losses
- Saves cooling BTUs and associated costs
- Efficiency options: 30-48% less loss than TP1

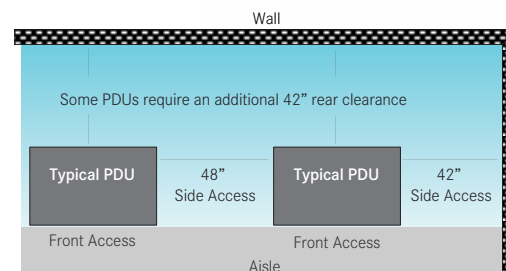


SMALL FOOTPRINT BIG SAVINGS

- True front-only access
- Eliminate 9-30 sq ft of floor space per unit
- Zero clearance required for sides and rear
- Highest power density



Energy Station™ Footprint
(per NEC)



Typical PDU Footprint
(per NEC)



CONFIGURABLE DISTRIBUTION

- Extensive distribution configurations
- Mixed 120/208V, 240/400V, 277/480V outputs
- Sub-feeds: 100A - 600A
- Field expandable

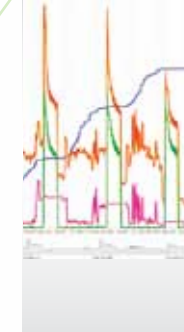


TRANSFORMER OPTIONS

- Multiple efficiency models
- K-Ratings
- Harmonic mitigation
- Full capacity migration: 120/280V to 230/415V
- Dual & triple voltage outputs
- Low inrush current, impedance & KAIC limits



Showing Energy Station™ PDU Model ES-500-1PA810-EC3H-480-400
with list options MON, SFM, WEB, SPD and IR.



CYBERHAWK™ MONITORING

- Measure input & output power quality
- Built-in time stamped event logs
- Fast 1/2 cycle sag/swell detection
- Measure losses, efficiency & operating temperatures
- User friendly, menu-driven color touch screen
- Sub-feed and branch circuit monitoring
- Web server with Modbus TCP & BACnet IP support
- Powersmiths WOW™ ready for big data collection & building management analytics



SERVICEABILITY & SAFETY

- Hinged panel for quick & safe inspections
- 360° Rotatable IR Port™ for quick & safer thermal scans
- Front mounted controls for ease of service
- EPO disabler for service protection
- Debris trap in top vents



SEISMIC QUALIFICATION OPTION

- Full product line certified to $S_{DS}=2.5g$
- OSHPD Seismic Certification (OSP-0351-10)
- IBC:2012 - 1705.12 Seismic Qualified
- ASCE 7-10 Chapter 13 Seismic Requirements



LOWEST ENVIRONMENTAL FOOTPRINT

- Compliant with sustainable procurement policies
- Operating efficiency lowers energy waste
- Lowers carbon footprint: Scope 2



POWERSMITHS MANUFACTURING

- Certified ISO 9001 - Quality Management
- Certified ISO 14001 - Environmental Management
- Certified ISO 17025 - Efficiency Test Lab

ENERGY STATION™ PDU CONFIGURATIONS

PRODUCT NAME	DISTRIBUTION OPTIONS	HI-EFFICIENCY TRANSFORMER*	LIST OPTIONS*
ES = Energy Station™ family ESH = High density (front & rear distribution) ESX = Expansion cabinet	Panel Boards: 208/120V, 225-400A, up to 84 cct 480/277V, 125-400A, up to 54 cct 480V, 250-800A, 6-18 way 600V, 250-800A, 6-18 way	E-Saver™: Energy efficiency T1000: Harmonic mitigation K-Rated K-Star-D™: Harmonic cancellation	MON = Comprehensive power monitoring DF = Dual feed with interlock WEB = Web server SPD = Surge protection device IR = Rotatable IR Port™
POWER	Sub-feeds: 100-600A T/M or Electronic trip Available in any combination	INPUT/OUTPUT VOLTAGES*	FAC = Front access control SFM = Sub-feed monitoring BCM = Branch circuit monitoring GF = Ground current monitoring SC = Seismic certified
50 - 750kVA		Input: 208/400/480/600V Output: 208/400/480/600V Multiple full capacity outputs Example: 400/230V & 208/120V	

*Contact factory for more options

POWERSMITHS ENERGY STATION™ PDU CUSTOMERS INCLUDE:

Royal Caribbean Cruise Ltd.	Sprint Corp.	TDS Telecommunications Corp.
San Francisco General Hospital	National Institute of Health	Scott Data Center
Intermountain Healthcare	Hewlett-Packard	Apache Corp.
Rockwell Collins	SLAC National Accelerator Laboratory	NuStar Energy, L.P.
Adobe Systems	Proton Therapy Center	Comcast Corp.
State of Texas	Verizon Wireless	ExxonMobil
Apple Inc.	U of Texas MD Anderson Cancer Center	US Navy
USPS	IP Global Networks	NASA
US Department of Energy		Rogers Communications

OTHER DISTRIBUTION PRODUCTS

- Remote load centers with 1 - 4 panelboards
- Compact PDU up to 75kVA transformer
- Ultra high efficiency transformers with up to 99.4% efficiency
- Transformers available with integrated primary and/or secondary breakers, sub-metering, extended logger, TVSS and more



POWERSMITHS

POWERSMITHS INTERNATIONAL CORP. 10 Devon Road, Brampton, Ontario L6T 5B5 Canada

Phone: (905) 791-1493 Toll-free: (800) 747-9627 Fax: (905) 791-8870

www.powersmiths.com