

MV Integrated PowerSkid™

Integrated, easy-to-install skid for medium voltage applications



The MV Integrated PowerSkid™ combines our highly efficient three-level bi-directional PCS with medium-voltage components to create an ideal solution for quick integration.

The MV Integrated PowerSkid is delivered on a pre-configured integrated skid for simplified installation and commissioning. Designed with integrated medium-voltage components, the PowerSkid offers maximum performance in a convenient package.

Our next-generation CPS-2500 PCS offers industry-leading power density and efficiency that will scale to meet the needs of large-scale energy storage applications.

System Advantages

- Quick and easy installation with factory assembled products
- Plug-and-play concept for easy integration
- Simplified procurement
- Simplified commissioning



CPS-2500 TECHNICAL SPECIFICATIONS

Electrical

AC Input Voltage:	480-800V _{AC}
Grid Frequency:	60 Hz
Maximum Apparent Power:	5337 kVA (800V _{AC}) 4600 kVA (690V _{AC}) 4000 kVA (600V _{AC}) 3600 kVA (480V _{AC})
Maximum Real Power:	5337 kVA (800V _{AC}) 4600 kVA (690V _{AC}) 4000 kVA (600V _{AC}) 3600 kVA (480V _{AC})
Maximum AC Current:	1928 A _{RMS} (3856A _{RMS})
DC Voltage Range:	771-1500VDC (@480-800V _{AC})
Maximum DC Current:	2340A _{DC} (4680A _{DC})
Power Factor:	Four Quadrant
Current Harmonics:	IEEE 1547 Compliant, <5% TDD
Maximum Efficiency:	98.58 @1500V _{DC} & 98.70 @1280V _{DC}

Environmental

Operating Temp:	-35 to +60°C, De-rated above +40°C
Max Elevation:	1000 Meters Full Power Up to 3000 Meters with Derating
Cooling:	Forced Air Cooled
Enclosure:	NEMA 3R/IP 54
Skid Dimensions (L X W X H):	240" x 96" x 108"

Certifications & Standards Compliance

UL1741 Ed. 3
IEEE 1547
CSA 22.2 #107.1
IEEE 519

TRANSFORMER TECHNICAL SPECIFICATIONS

Overview

Construction Type:	Hermetically Sealed with Corrugated Walls
Distribution:	3-Phase
Power:	4-5.3MVA
Cooling Class:	ONAN (KNAN and FR3 also available)
HV Winding:	11-34.5 kV Delta
Alternative MV AC Standard Options:	34.5kV, 12.45kV, 13.8kV
LV Winding:	480-800V _{AC}
Optional Integrated MV Disconnect with Fuses	

Optional Accessories:

Thermometer Pocket EN 50216-4
Pressure Relief Device with 2 Contacts
Dial Type Thermometer with 2 Contacts and Max. Pointer
Oil Level Indicator with 2 Contacts
Manometer – Pressure Vacuum Gauge
Electrostatic Shield Between HV & LV Windings
Jacking Pads



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