

MV Integrated PowerSkid™ 5000

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

The MV Integrated PowerSkid™ 5000 combines our highly efficient three-level CPS-2500 converters with medium-voltage components to create an ideal solution for quick integration.

The MV Integrated PowerSkid 5000 is delivered on a pre-configured integrated skid for quick installation and easy commissioning. Designed with integrated medium-voltage components, our Integrated PowerSkid offers maximum uptime in a convenient package.

Our next-generation CPS-2500s offer industry-leading power density and efficiency that will scale to meet large-scale storage integration.

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 (x2)

Electrical

| | |
|-------------------------|---|
| AC Input Voltage: | 800V _{AC} |
| Grid Frequency: | 60 Hz |
| Maximum Apparent Power: | 5300 kVA |
| Maximum Real Power: | 5300 kVA |
| Maximum AC Current: | 2x 1928 A _{RMS} (3856A _{RMS}) |
| DC Voltage Range: | 1150–1500V _{DC} |
| Maximum DC Current: | 2x 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 +45°C |
| Max Elevation: | 1000 Meters Full Power Up to 3000 Meters with Derating |
| Cooling: | Forced Air Cooled |
| Enclosure: | NEMA 3R/IP 54 |
| Dimensions (HxWxD): | 377" x 85" x 120" |
| Weight: | 45,200 lbs |

Certifications & Standards Compliance

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

TRANSFORMER TECHNICAL SPECIFICATIONS

Overview

| | |
|--|-------------------------|
| Distribution: | 3-Phase |
| Power: | 5.3 MVA |
| Cooling Class: | ONAN |
| HV Winding: | 1 x 34.5kV WYE |
| Alternative MV AC Standard Options: | 34.5kV, 12.45kV, 13.8kV |
| LV Winding: | 2 x 800V _{AC} |
| No Load MV Pad Lockable Switch | |
| Liquid Level Gauge with Alarm Contacts | |
| Thermometer with Alarm Contacts | |
| Pressure Gauge with Alarm Contacts | |

DYNAPOWER

85 Meadowland Drive, South Burlington, Vermont USA 05403

1.802.860.7200 | sales@dynapower.com

[dynapower.com](https://www.dynapower.com)

