

SBU-MG Microgrid DER Switchboard



Figure 1: 2000A Microgrid DER Control Switchboard



Figure 2: 3000A Utility Intertie & Power Distribution Switchboard



Figure 3: Side View – Optional: Isolated PT & CT Test Switch Compartment

SBU-Series 480-600V Microgrid Intertie Switchboard

- ⊙ Provides Power from Microgrid Systems to loads when distributed energy (DER) is needed
- ⊙ System Voltage Range:
 - 480V – 600V, 60/50 Hz
- ⊙ Insulated case Main Circuit Breaker:
 - 800A – 4000A
- ⊙ UL 891 Listed Standard for Switchboards
- ⊙ Main bus:
 - Silver-plated copper bus (1000A/in²)
 - NEMA standard hole pattern
 - 65kAIC bracing min
- ⊙ Symmetrical Interrupting Capacity:
 - 35kA, 65kA or 100kA
- ⊙ Unit Mounted MCCBs offer the Ultimate in flexibility, serviceability, and troubleshooting
 - One (1) Main Utility Insulated Case Circuit Breaker
 - One (1) Battery System Breaker
 - One (1) Auxiliary Feeder Circuit Breaker
- ⊙ Self-derived control power with on-site 120VAC convenience receptacle
- ⊙ Internal Climate Control to include Space Heaters with Thermostat
- ⊙ Service Entrance Utility Intertie Options
 - IEEE 1547 – IEEE Standard for Interconnecting Distributed Resources with Electric Power
 - Visible circuit disconnect with draw-out main circuit breaker
 - Surge Protection Device:
 - Type 1 & Type II Available
 - Utility Intertie Protective Relay Functions as required
 - Isolated Side Access Operator Control Cabinet
 - Voltage & Current Test Switches per utility requirements
 - Potential Transformers (PTs):
 - Fused, Fixed mounted, revenue grade potential transformers connected in wye configuration
 - Current Transformers (CTs):
 - Dedicated Revenue Grade CTs with 0.3% Accuracy @ B0.1 Burden for Revenue Grade Meters as required