

## VFD (AC) Power Houses

Specialized power systems for efficient energy delegation and reliability

### APPLICATIONS

- Land drilling operations

### BENEFITS

- Streamlines energy delegation and conversion for reliable service

### FEATURES

- Advanced AC variable frequency drives (VFD) with integral dV/dT filters for compatibility with drawworks, topdrive, and mud pumps
- Generator controls for automatic breaker closing synchronization and load sharing
- Programmable logic controllers (PLCs) and communication networks for ease of operation
- Formed wall construction with insulation in walls, ceiling, and under skid
- Variety of transportation characteristics (skid mounted, top lifted, or trailer mounted)
- Covered and protected subfloor wiring with removable plates and rubber matting
- HVAC systems rated and designed for 100% sensible heat loads
- Greater dynamic braking and rectifier capacity for longevity
- Includes remote input/output boxes and critical sensors
- Two personnel doors with convenient, foldable steps
- Porch mounted equipment includes power and lighting transformers, VFD dynamic braking resistors, and 600-Vac motor control center (MCC) current-limiting reactors

Schlumberger power houses are made with the highest quality material, custom designed, climate controlled, and combined with the latest generator and superior AC drive technology and controls. Our field-proven power houses deliver reliability and performance in demanding drilling environments. Each VFD power house includes a PRECISE\* automated drilling system, AC line-up, VFD line-up, MCC, control system components, and all the hardware required to generate and distribute power to every piece of equipment on the rig.

The team works with you to design a high-quality power house that meets your requirements. Working with customers, Schlumberger designs power houses that have optimal plug panel placement and transportation characteristics (top lifted, skidded, or trailer mounted) to effectively align with the drilling contractor's rigsite layout and transportation methodology. When the power house is in operation, it provides superior performance and control for drilling operations. Intelligent power management allows the system to operate at reduced performance levels based on available equipment.

When needed, personnel can remotely connect to a rig to troubleshoot, correct, or update software or human machine interfaces (HMIs). No matter your location, our personnel are trained to solve some of the world's toughest drilling problems.



*Schlumberger VFD power houses include all the hardware required to generate and distribute power throughout the rig.*