GRID
INFRASTRUCTURE SOLUTIONS

SHUNT REACTORS

Shunt Reactor Applications:

Shunt Reactors are used in high-voltage power systems to absorb reactive power and maintain stable voltage levels on the entire system. It is essentially an inductor connected in parallel (shunt) with the power system. They are primarily used to compensate for capacitive reactive power generated by long transmission lines, underground cables, or lightly loaded systems, which can cause overvoltage conditions and damage other equipment.

Features:

- **Overvoltage Protection:** Flexible reactive power compensation for better voltage control, leading to less voltage changes when switching during operation.
- **Durable Construction:** Made with the strongest materials for optimal insulation and temperature resistance for reliable operation in most environments.
- **Maintenance-Free:** Designed for strength and stability to provide low vibration, trouble-free operation and long service lifespan.

Lead Time:

Approximately **8 weeks** after drawings approved.

**Photos shown for visual reference only—actual product specifications may vary based on manufacturing and order requirements.*

SHUNT REACTORS

Maximum Design Voltage	Rated Capacity of a Single Set	Inductance Tolerance
1 ~ 230kV	100 ~ 80,000 kvar	0 ~ +5%

Model	Rated Capacity (kvar)	Rated Voltage (kV)	Overall Dimensions (in)
BKGKL-2000/10.5-W	2000	10.5	≤ 255 x 236 x 70
BKGKL-4000/10.5-W	4000	10.5	≤ 255 x 255 x 70
BKGKL-6000/10.5-W	6000	10.5	≤ 275 x 275 x 70
BKGKL-10000/10.5-W	10000	10.5	≤ 315 x 315 x 70
BKGKL-30000/10.5-W	30000	10.5	≤ 395 x 395 x 70
BKGKL-45000/10.5-W	45000	10.5	≤ 475 x 475 x 70
BKGKL-60000/10.5-W	60000	10.5	≤ 475 x 475 x 70

Working Conditions:

- Outdoor or indoor installation
- Max. ambient temperature: 113º F (45º C)
- Min. temperature: -13º F (-25º C)
- Altitude: ≤2000m
- Relative humidity: ≤90% (without condensation)
- Customized engineering available on request

GRID INFRASTRUCTURE SOLUTIONS
5 Park Plaza, Suite 640
Irvine, CA 92614

Email: sales@grid-infrastructure.com
Phone: +1 (949) 570-8998
Website: grid-infrastructure.com