

## ONLINE & OFFLINE UPS



Domestic, commercial, and industrial Uninterruptible Power Supply (UPS) systems differ significantly in their design, power capacity, and environmental resilience. A domestic UPS is for household use, a commercial UPS is for offices and retail with lower power demands and an industrial UPS is built for harsh environments and heavy-duty machinery, withstanding high temperatures, dust and vibrations.

Domestic UPS capacity is typically small (1-10 kVA), commercial UPS systems range from 1 kVA to 100 kVA and industrial UPS systems can range from 100 kVA to several megawatts to power heavy-duty machinery. The correct capacity depends on the specific load and environment, and is determined by calculating the total VA (volt-amperes) of all connected equipment, with an added buffer for growth.

### **Domestic**

- **Capacity:** Generally 1 kVA to 10 kVA, sufficient for home electronics, computers, and home offices.
- **Application:** Protecting sensitive electronics from power surges and outages in a residential setting.

### **Commercial**

- **Capacity:** Typically ranges from 1 kVA up to 100 kVA for small and medium businesses.
- **Application:** Powering equipment in offices, retail spaces, servers, and point-of-sale systems.

### **Industrial**

- **Capacity:** Can range from 100 kVA to several megawatts, to handle large, heavy-duty loads.
- **Application:** Powering process controls, large machinery, and massive operations in industrial facilities.