

The US 277Vac input voltage For WBA series



Introduction:

The AC power supplied and used by household and commercial buildings in the USA is primarily 120Vac. This is suitable for most electrical and electronic equipment in the home or office, but for the higher power requirements of electric driers, air conditioning and electric ovens, 208Vac or 240Vac is available.

In larger commercial properties in addition to 208 and 120Vac, 480Vac three-phase power is supplied to the building in a “WYE” (or Y) configuration as shown in Figure 1.

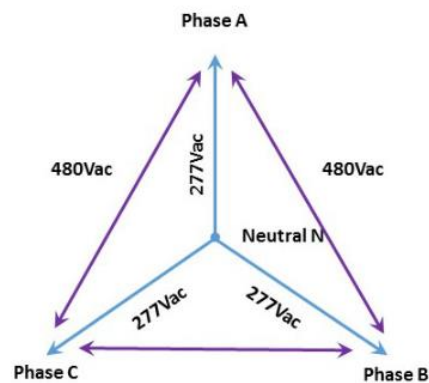
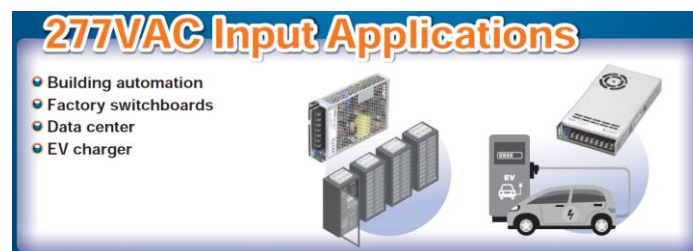


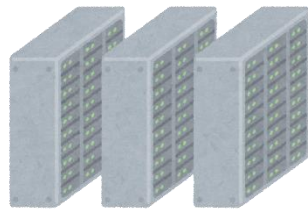
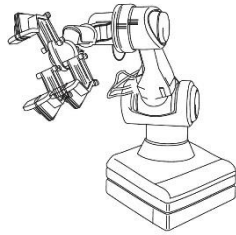
Figure 1: 480Vac three-phase

The 480Vac three-phase is used to power large electrical equipment like fork lift battery chargers, ovens and heavy machinery. Using this higher voltage reduces the amount of current drawn by the load, and is balanced equally between each phase for more efficient power distribution and generation.



277VAC input Applications:

- Building automation
- Factory switchboards
- Data center
- EV charger



WBA series:

WBA series is the latest enclosed type AC-DC power supply launched by Cosel. It is approved to IEC62368-1 and is suitable for various industrial applications. It comes with reinforced isolation of AC4000V, a low-profile height of 30mm, and the operating altitude is up to 5000 meters.

WBA series has a wide input voltage range of 170-305VAC, which is designed to avoid downtime caused by power supply failure due to abnormal high AC input voltage. And it is ideal for 277VAC input applications, such as building automation, factory switchboards, data centers and EV chargers.



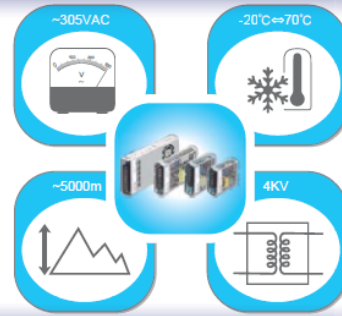
Cosel's other lineup:

[-WBA series](#)

[-TUNS series](#)

Features

- **Higher reliability**
Wide input voltage 170 - 305VAC
Wide temperature range (-20°C to +70°C)
Operating altitude up to 5000 meters
4kV isolation
- **Accepts 230/277VAC Nominal Inputs**
- **Low-profile of 30mm**
- **Economical design**
- **Low standby power loss, high efficiency**



ITE/Industrial Applications

- **Industrial automation machinery**
- **Industrial control system**
- **Semiconductor manufacturing equipment**

