

Power-Pak Project

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GEM 360 was challenged by a DoD client to provide both personnel and logistical support to various remote locations in the Middle East. Their immediate need was to distribute electrical power to other containerized work cells and mobile labs, that were performing different functions within a common work site. This product came to be known as a "Power- Pak." The finished product had to retain its standard handling, lifting, and stacking characteristics as it would be subject to shipping internationally via all known methods including military air freight.



The 10 foot ISO Container otherwise known in the industry as a Bicon Container underwent numerous upgrades:

- A heavy duty personnel access door, equipped with heavy duty gaskets and hardware to retain operability in harsh environments, was cut into the front end.
- A framed area in the front of the container with cable glands that allowed utility and generator power cables to be introduced into the container while sealing out water and dust.
- An automatic transfer switch (ATS), rated at 800 amps, 3 phase and supplied with communications to allow remote monitoring, was installed.
- Two (2) downstream 400 amp, 3 Phase panelboards were installed.
- The feeder breakers on the panel boards were cabled to qty-76 pin & sleeve devices that were mounted into a bolt-together partition wall.
- An additional low voltage panelboard was provided to provide power to interior lights, maintenance power receptacles, and a wall mounted split duct heating/ventilation/air conditioning (HVAC) unit that controlled the interior environmental space of the container.
- The original container wood flooring was retained and a 2-part polyurea coating was applied.
- The exterior of the container was finished with high quality paint.

