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**TITLE**

**Optimizing Power Architectures fo Naval Systems.**

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**ABSTRACT**

While a COTS UPS may have a lower initial investment than a rugged UPS, you may pay more over the total life cycle of the UPS for the COTS UPS. If the COTS UPS can't survive the harsh environment since it wasn't designed to pass the military standards, your sparing and logistics costs to replace that inventory is going to be high, but so is your system downtime as you deal with a failure or wait for a replacement.

When choosing an uninterruptible power supply, power conditioner, battery backup or power distribution system for military applications or other harsh settings, it's mission critical that reliability and survivability in all operating environments be considered in the context of the true life cycle costs of the purchasing decision. The UPS with the lowest initial investment may cost much more over the life of the system when replacement, sparing, logistics and downtime costs are considered.