How to Avoid the Wrong Power Supply

FOCUS: Custom vs. Standard

1. Standard
   Convenience vs. Specificity
   • Standards are ordered from a manufacturer or distributor
   • Have already been produced and tested
   • Generally represent common and popular design specifications
   • Fall into 5 general categories:
     › Encapsulated
     › Open Frame
     › Desktop
     › Wall Mount
     › DIN
   • No development or NRE costs
   • Generally a short lead time
   • Usually does not meet exact specifications
   • Performance specifications can be overkill as they are not exact
   • More risk of failure and cost of repair in the long run

2. Custom
   Specificity vs. Cost & Time
   • Custom supply ranges from semi custom (slight change in a standard) to full custom (all new specs)
   • Usually needed if a standard design can’t meet performance or mechanical fit
   • Best in situations that will not need to change in the future (manufacturer needs to get all changes approved by customer)
   • Higher cost
     › NRE Cost
     › Design Cost
     › Agency Approvals
   • Longer lead time (Design: 2-3 months, Full production: 6 months)