DO I NEED A STANDARD OR CUSTOM POWER SUPPLY?

STANDARD

CUSTOM

PROS OF A STANDARD

ORDERED FROM MANUFACTURER



REFLECTS MANUFACTURER EXPERIENCE



PRODUCED, TESTED, AND QUALIFIED



SHORT LEAD TIME



NO DEVELOPMENT/NRE COSTS



DESKTOP

- Battery Charge
- **DIN RAIL**
- Attach to Rail
- Battery Charger
 Connects to AC
 Outlet by Cable
 Inexpensive
 Used In Low Pow
 Applications
 Poor Regulation
 Poor in High Tem oor in High Temp
- Industrial Applications

Usually within a

Air-Cooled

Typical In

- Usually Have Shielding and Filtering in Place
 Require Cooling Unless Heavily Derated
- Derated
 Perform Poorly in
 Wide Ambient Temp.
 Environments

OPFN FRAME

Widely Available &

Inexpensive

Usually Have

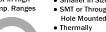
Internal Components



WALL MOUNT

- Plug into Wall
- InexpensiveUsed In Low
- - Applications
 - Poor Regulation
 - Poor in High Temp. Ranges







Thermally
Conducted
Material
Extra Components
May be Needed
for Protection

ENCAPSULATED

Fully Enclosed



CONS OF A STANDARD



USUALLY DOES NOT MEET EXACT SPECIFICATIONS





SPECS CAN BE OVERKILL AND CAUSE FAILURE





HIGHER RISK OF FAILURE & COST OF REPAIR

GREATER COST FOR CUSTOMS UPFRONT

.·····but·····

SAVE \$ ON REPAIRS & DEVICE GENERALLY LASTS LONGER

MONTHS for prototype

LONGER LEAD TIMES

MONTHS



for full production

DESIGNING A CUSTOM

Input Voltage Output

- Output
- **Form Factor** Mounting



STEP

Additional

Input Range

Requirement

Over & Under

Voltages

Turn On & Off Cooling Thermal

Connector & Hookup

STEP

What Can Be Compromised to Save on Cost, Size,

STEP

02

FOR KEY

STEP 04



SPECIAL SPECS REQUIREMENTS REQUIREMENTS



OTHER REQUIREMENTS



TWEAKS

A GOOD DESIGN TEAM WILL **KNOW WHERE TO COMPROMISE TO SAVE ON COST**

