






DO I NEED A STANDARD OR CUSTOM POWER SUPPLY?

STANDARD

PROS OF A STANDARD

- 01 ORDERED FROM MANUFACTURER 
- 02 REFLECTS MANUFACTURER EXPERIENCE 
- 03 PRODUCED, TESTED, AND QUALIFIED 
- 04 SHORT LEAD TIME 
- 05 NO DEVELOPMENT/NRE COSTS 



CONS OF A STANDARD

- 01 USUALLY DOES NOT MEET EXACT SPECIFICATIONS 
- 02 SPECS CAN BE OVERKILL AND CAUSE FAILURE 
- 03 HIGHER RISK OF FAILURE & COST OF REPAIR 

CUSTOM

GREATER COST FOR CUSTOMS UPFRONT

but

SAVE \$ ON REPAIRS & DEVICE
GENERALLY LASTS LONGER

2-3 MONTHS
for prototype

LONGER LEAD TIMES

MONTHS 6
for full production

DESIGNING A CUSTOM

• Input Voltage
• Output Voltage
• Output Power
• Output Current
• Form Factor
• Mounting
• Agency Approvals
• Size

• UL Qualified
• Additional Input Range
• Transient Voltage Requirements
• Over & Under Voltages
• Condition Maximums

• Turn On & Off
• Cooling
• Thermal Management Options
• Connector & Hookup Requirements

• What Can Be Compromised to Save on Cost, Size, etc.

STEP 01

STEP 02

STEP 03

STEP 04



KEY REQUIREMENTS



SPECIAL SPECS FOR KEY REQUIREMENTS



OTHER REQUIREMENTS



TWEAKS

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

