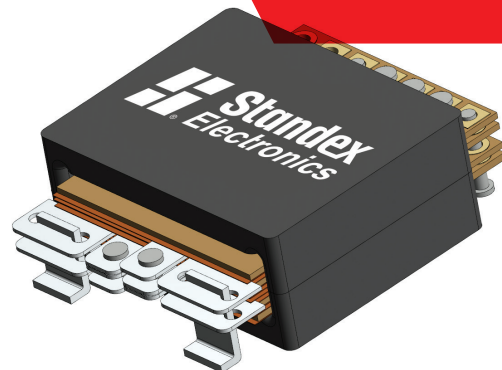


SIZE 135  
300W-1.2kW  
DESIGN EXAMPLE



TRANSFORMER DESIGN | EXAMPLE - PQC2066

ELECTRICAL SPECIFICATIONS	Topology	Full Bridge ZVS
	Input Voltage	42-56VDC
	Output Power (Output Voltage/Current After Rectification)	120VDC/3.5A (420W)
	Turns Ratio - Np/Nboost/Ns	3T/9T
	Switching Frequency	200kHz
	Duty Cycle, Max. At Low Input Voltage	97.0%
	Efficiency At Full Power Calculated	98.95% (4.4W losses)
	External Ambient Temp, Max.	+35°C

Temp. Rise, Hotspot Ambient, Max.	+58°C
Minimum Isolation Voltage	
Primary To Secondary	2121VDC
Secondary To Core	500VDC
Primary Inductance, Np, Min.	27µH
Primary Resistance, Np, Max.	1.8mOhm
Secondary Resistance, Ns, Max.	16mOhm
Leakage Inductance 1-2/3-4 Shorted, Typ.	50nH
Weight Range	50-150grams

NOTES:

- 1) FOR OPTIMAL PERFORMANCE A THERMALLY CONDUCTIVE SUBSTRATE BETWEEN FERRITE AND HEATSINK SHOULD BE UTILIZED
- 2) HEATSINK & THERMAL SOLUTIONS AVAILABLE