

Flyback Transformer Specification

04/02/14

Program: High Input voltage 75W PSU (PMP10035_REVA)

Electrical:

Circuit Topology: 75W Quasi Resonant / Discontinuous Flyback

Input voltage range: 85VAC (low line) to 265VAC (high line)
90VDC to 375VDC

Frequency range: 30 KHz min., 130KHz max.

Frequency@full load (Pout=75W) 55kHz (low line)
85kHz (high line)

Max. Duty Cycle < 50% for full load

Max. Overtime (full load): < 1.3us for $V_{in} = 375VDC$
< 8.0us for $V_{in} = 90VDC$

Primary Inductance: 140uH \pm 10% @100KHz, 1V

Leakage Inductance: < 1.4uH

Output Voltages: SEC Output = 19.5V@3.84A
Bias Output = 11.3V@0.05A

Turns Ratio: (PRI:SEC) = 3.3
(PRI:BIAS) = 5.6

RMS Currents (low line): Primary: 1.9A
SEC: 6.2A
Aux: 50mA

PEAK Current (low line): Primary: 4.9A
SEC : 14.6A

Safety standard: reinforced insulation

Temperature Rise: 40C max hot spot

