

AB-52 PC Power Applications

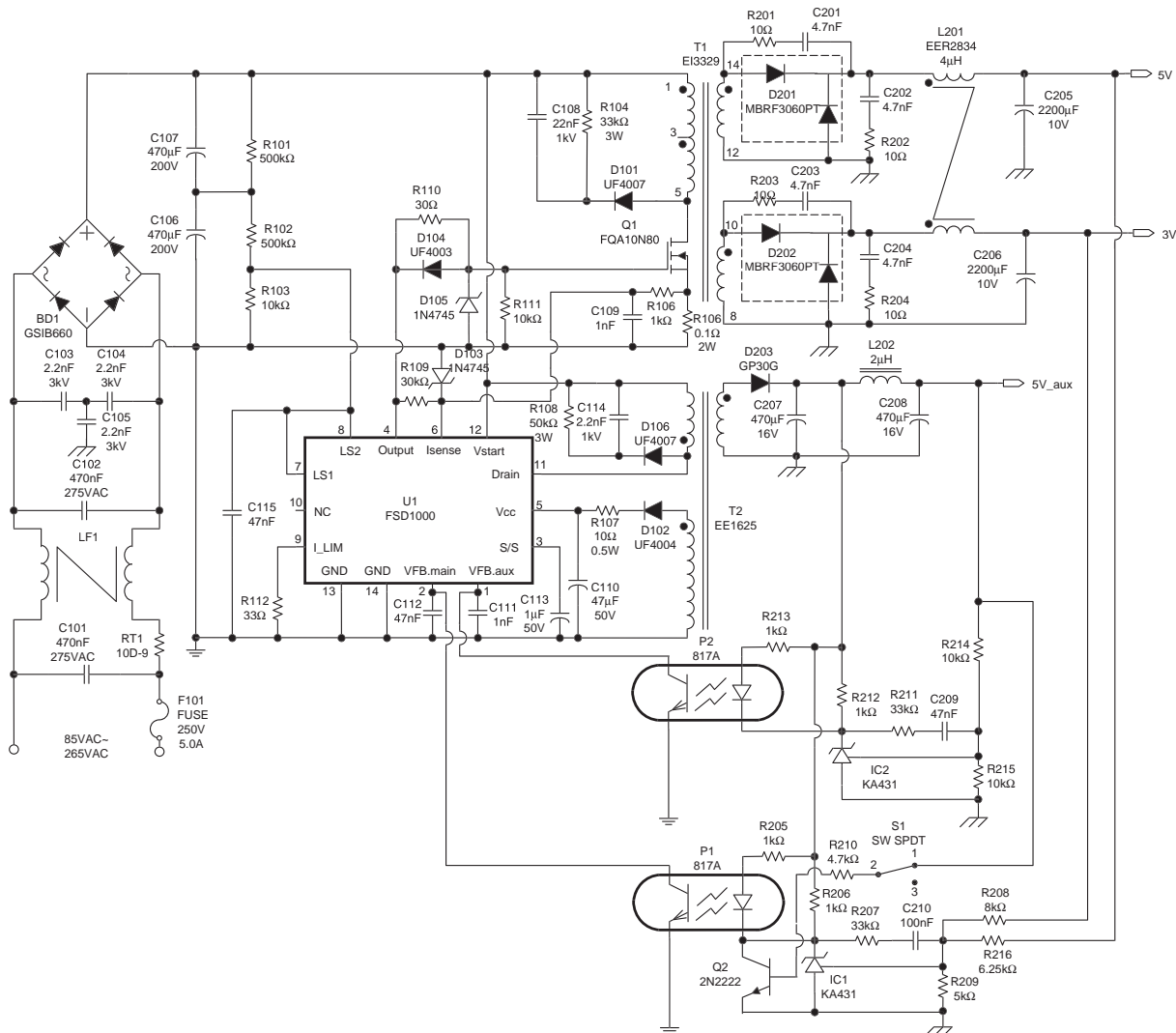
PC-100W-FSD100 – 100 Watts

Application	FPS Device	Input Voltage Range	Rated Output Power	Output Voltage (Rated Current)
PC Power	FSD100	170–265 Vac or Universal with Voltage Doubler	110W	Main: 3.3V (12A), 5V (12A) Aux: 5V (2A)

Features

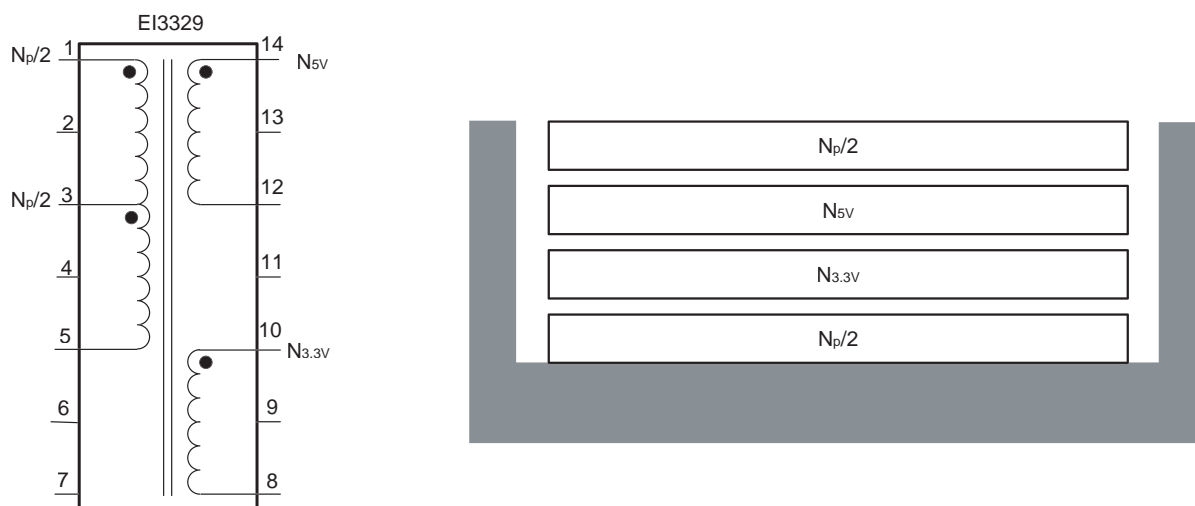
- Synchronized switching of Main and Auxiliary Power (70kHz)
- Line Under voltage / Over Voltage Lockout
- Burst Mode Operation for auxiliary power to reduce the Power Consumption in the Standby Mode
- Internal High Voltage SenseFET for auxiliary power

1. Schematic Diagram



2. Transformer

2.1. Transformer Schematic Diagram



2.2. Winding Specification

	Pin (S → F)	Wire	Turns	Winding Method
$N_p/2$	1 → 3	0.5Φ x 1	24	Solenoid winding
Insulation: Polyester Tape t = 0.050mm, 2 Layers				
$N_{3.3v}$	10 → 8	0.4Φ x 6	2	Solenoid winding
Insulation: Polyester Tape t = 0.050mm, 2 Layers				
N_{5v}	14 → 12	0.4Φ x 6	3	Solenoid winding
Insulation: Polyester Tape t = 0.050mm, 2 Layers				
$N_p/2$	3 → 5	0.5Φ x 1	24	Solenoid winding
Outer Insulation: Polyester Tape t = 0.050mm, 2 Layers				

Core: EI3329 ($A_e = 118 \text{ mm}^2$)

Bobbin: EI3329

2.3. Electrical Characteristics

	Pin	Spec.	Remark
Inductance	1–5	9 mH	100 kHz, 1V
Leakage	1–5	10 μH	Short all other pins

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FACT Quiet Series™		OCXPro™	RapidConnect™	UHC™
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