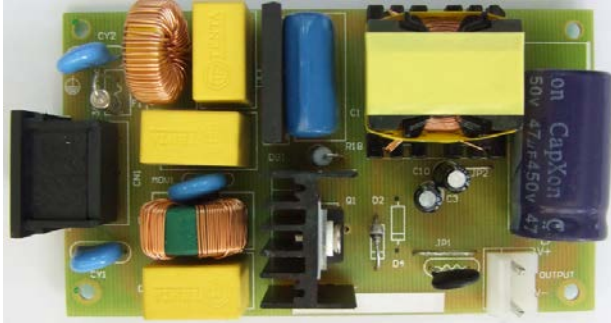


Subject
OB6560 Demo Board Manual

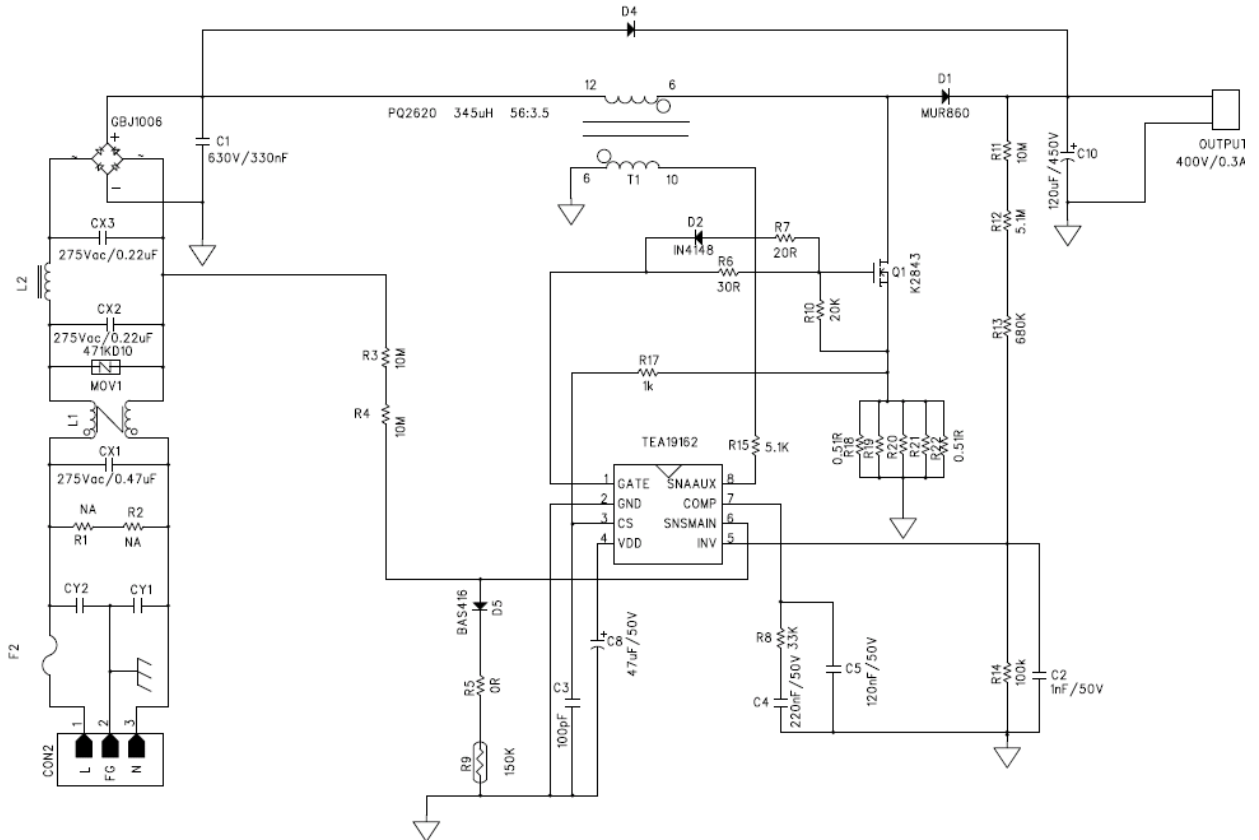
Board Model: OP400V0.3A6560.A0
Doc. No.: OB_DOC_DBM_63A1



Key features:

- Quasi-resonant Mode Operation
- System Open Loop Protection
- Audio Noise Free
- System Open Loop Protection
- Dynamic and Static Output
- Over-Voltage Protection
- OTP/OCP Protection
- Brown-in/Brown-out Protection
- L/Diode short Protection

Schematic



Performance Evaluation

1.1 Data Table at Full Load Condition

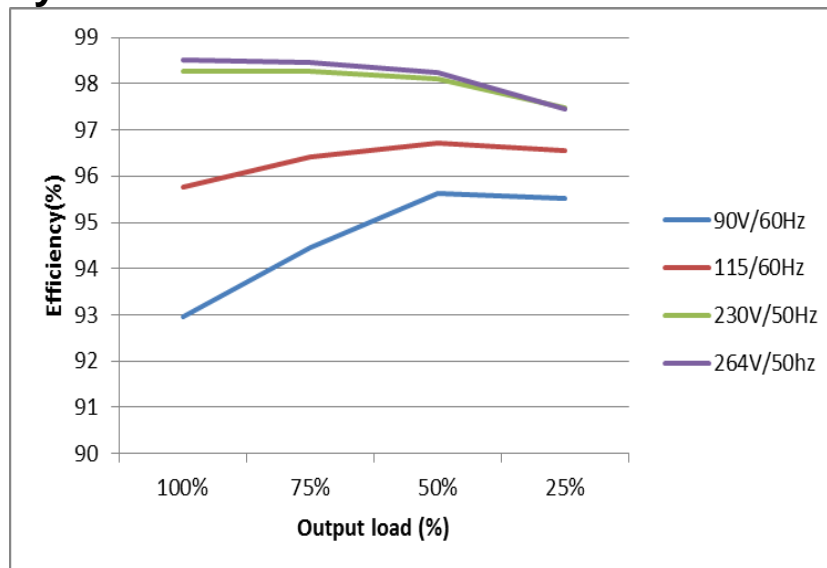
Vrms	PF	THD(%)	Effi(%)
90V	0.995	8.74	92.97
115V	0.994	9.54	95.77
230V	0.963	23.55	98.27
264V	0.948	25.72	98.52

1.2 Brownin/Brownout

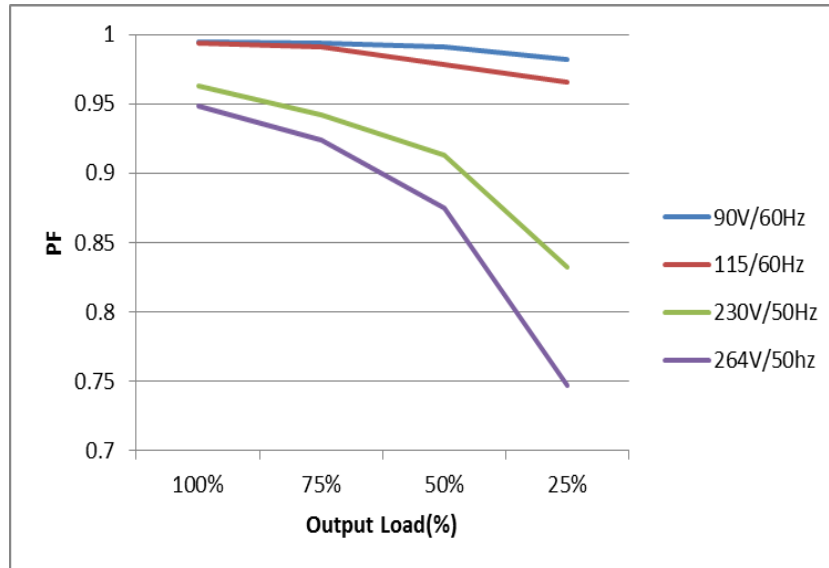
	100%	50%	20%	15%
Brown in	81.7	81.3	82.0	82.2
Brown out	72.2	72.5	71.8	65.8

备注: SNSMAIN 对地接 100pF 电容

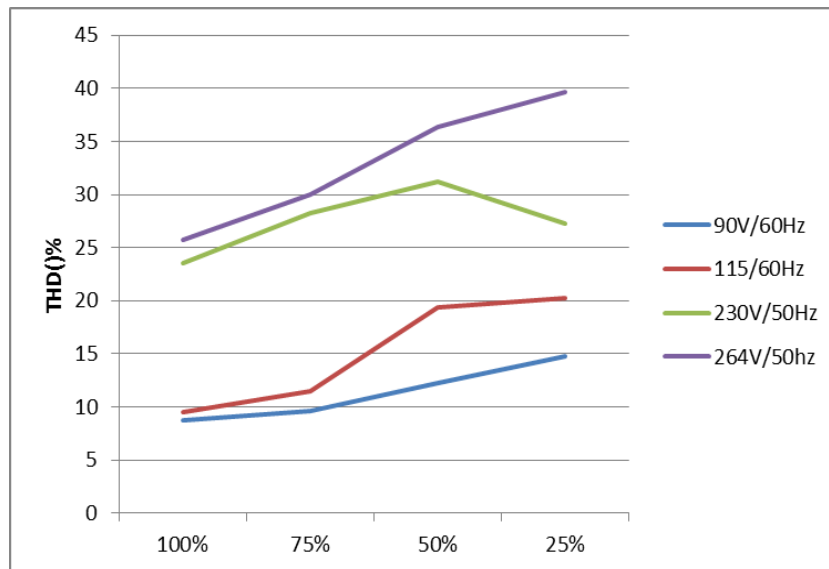
1.3 Efficiency



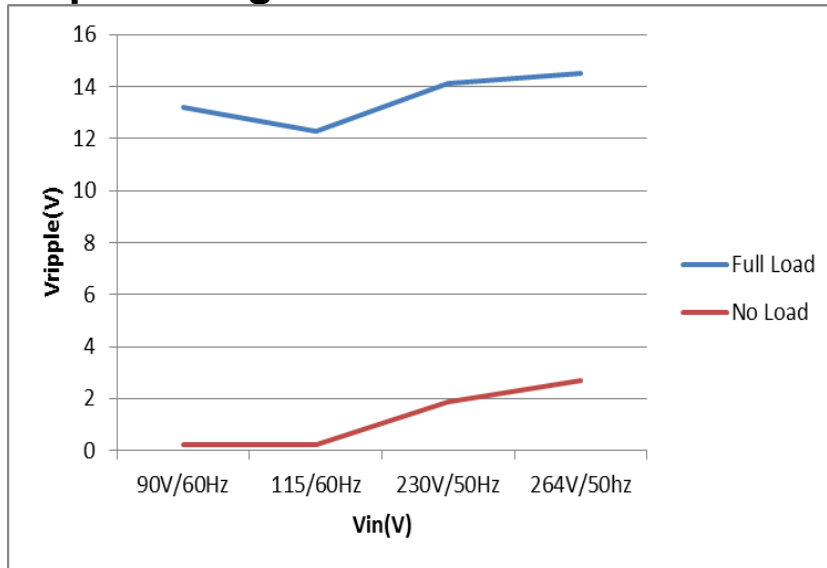
1.4 Power Factor



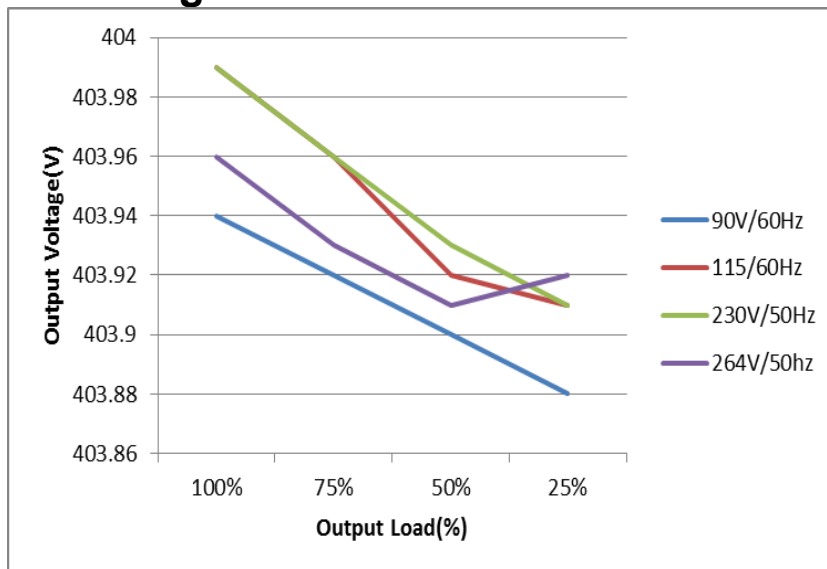
1.5 Total Harmonic Distortion



1.6 Ripple Output Voltage

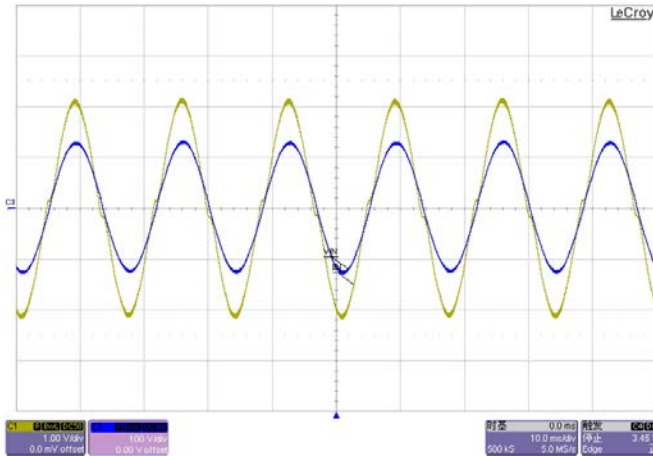


1.7 Output DC Voltage



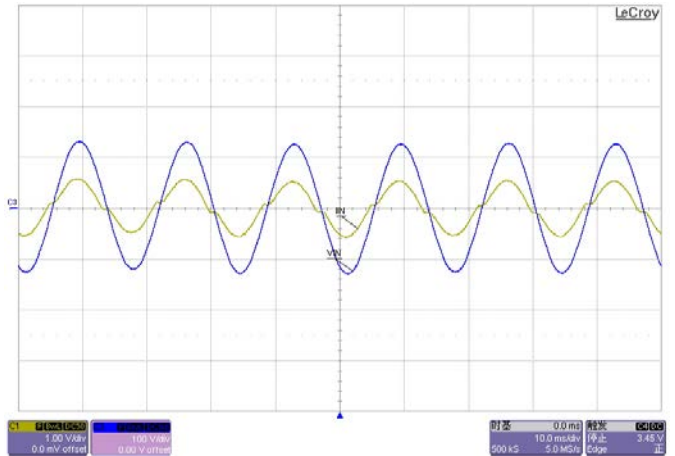
2 Measured Waveforms

2.1 Input Characteristics



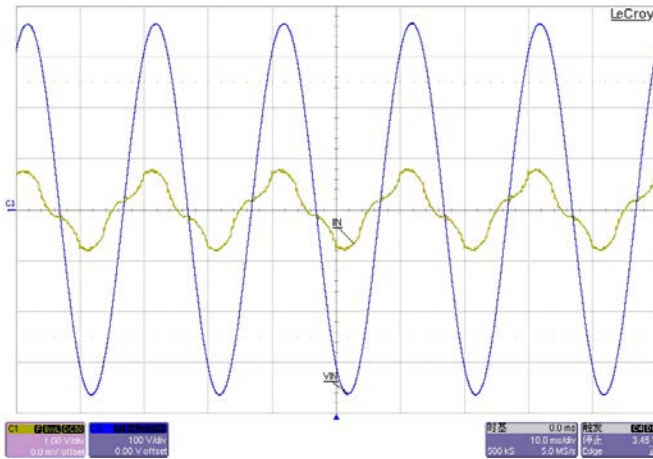
CH1: Iin CH3: Vin

Figure 1 Line Voltage and Line Current @ 90Vac/60Hz, Full Load.



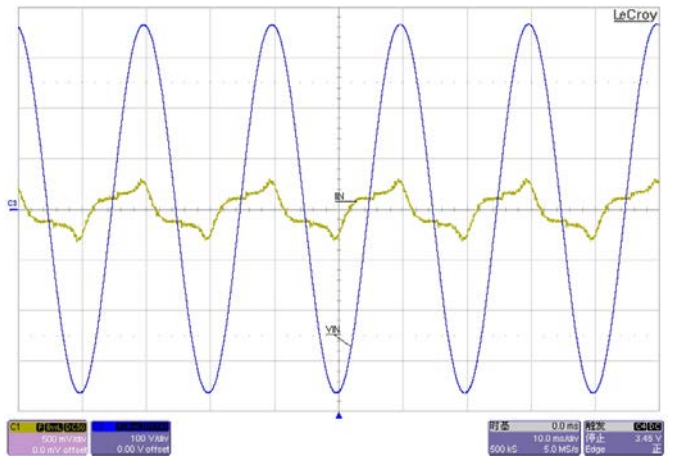
CH1: Iin CH3: Vin

Figure 2 Line Voltage and Line Current @ 90Vac/60Hz, 25% Load.



CH1: Iin CH3: Vin

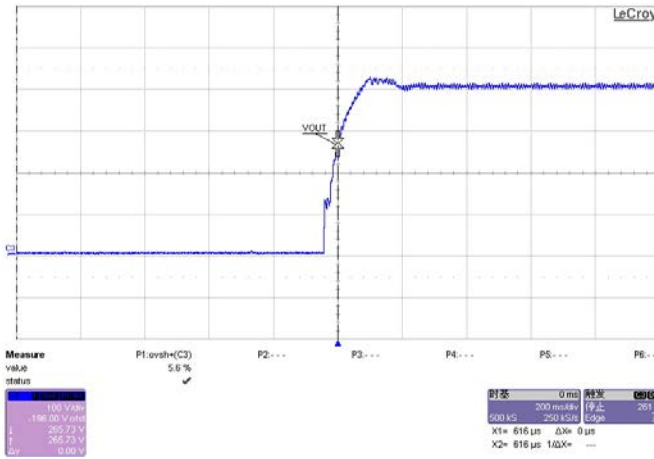
Figure 3 Line Voltage and Line Current @ 264Vac/50Hz, Full Load.



CH1: Iin CH3: Vin

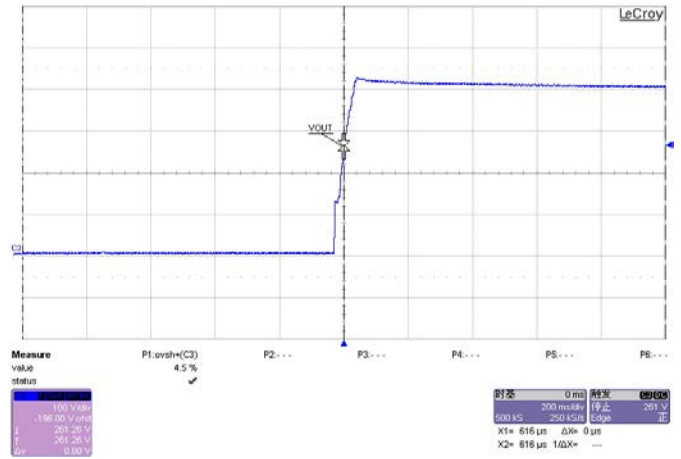
Figure 4 Line Voltage and Line Current @ 264Vac/50Hz, 25% Load.

2.2 Output Voltage Overshoot



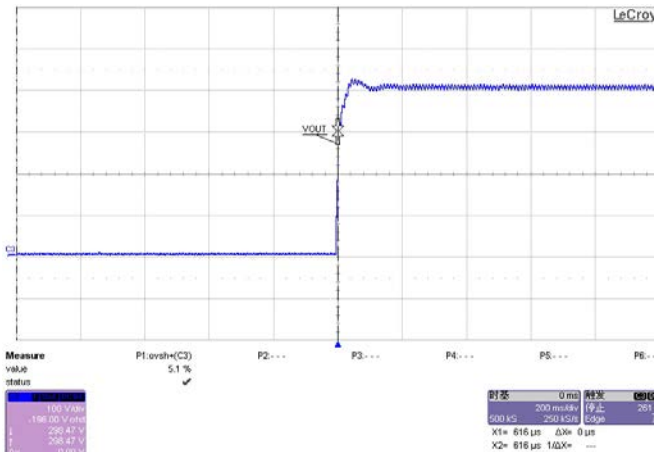
CH3:Vout_overshoot

Figure 5 Output Voltage Overshoot Measure @90Vac/60Hz, Full Load, Cold Start.



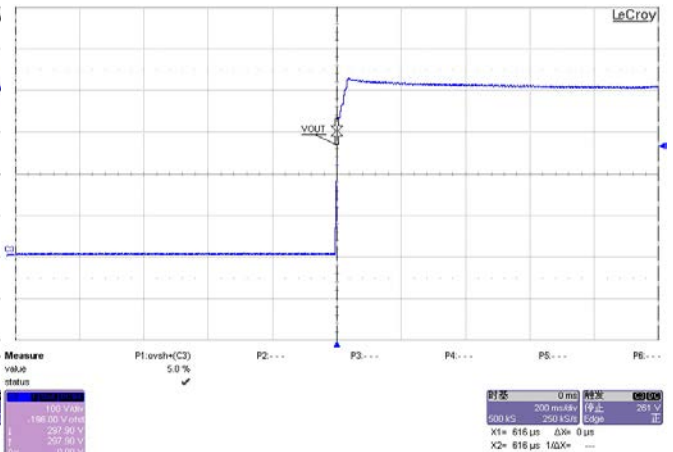
CH3:Vout_overshoot

Figure 6 Output Voltage Overshoot @90Vac/60Hz, No Load, Cold Start.



CH3:Vout_overshoot

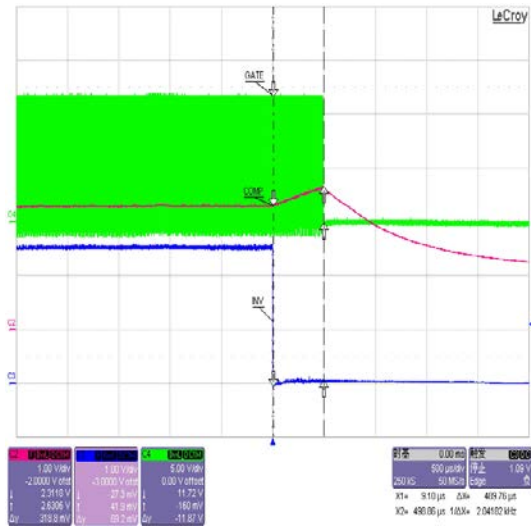
Figure 7 Output Voltage Overshoot @264Vac/50Hz, Full Load, Cold Start.



CH3:Vout_overshoot

Figure 8 Output Voltage Overshoot @264Vac/50Hz, No Load, Cold Start.

2.3 Open Loop Protection



CH2: COMP CH3: INV CH4: PFCGATE
Figure 9 Pulled INV Pin To Ground After Turned On @ 230Vac/50Hz, Full Load

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