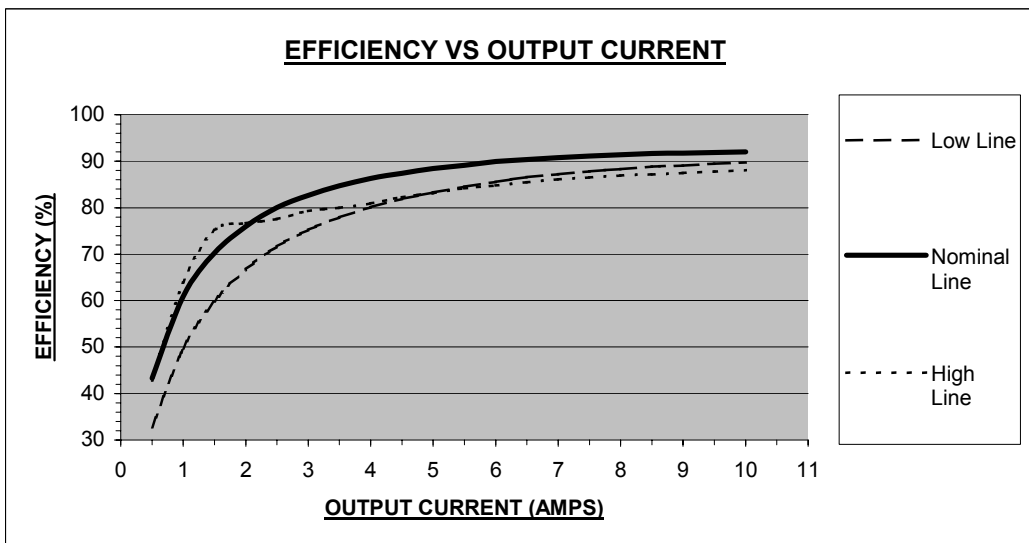
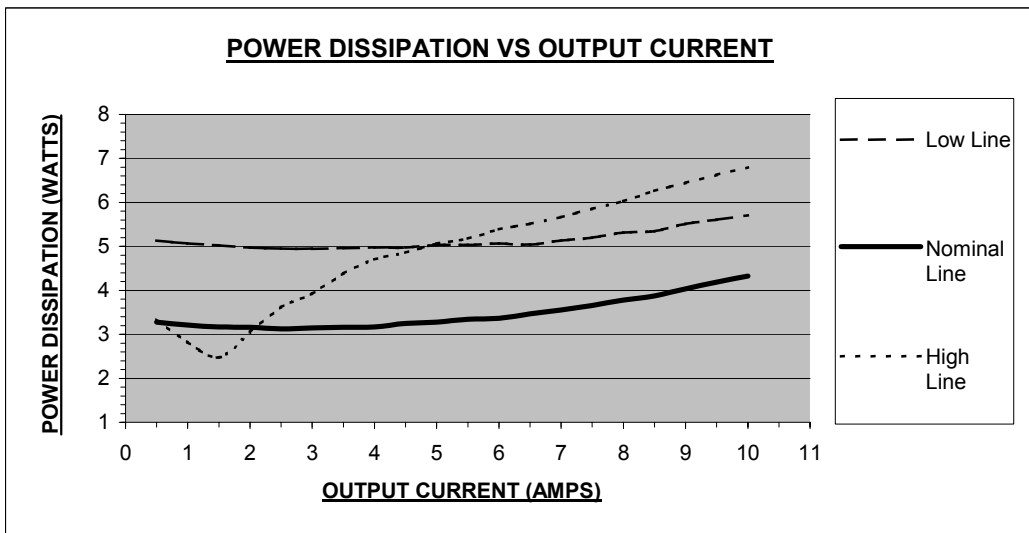
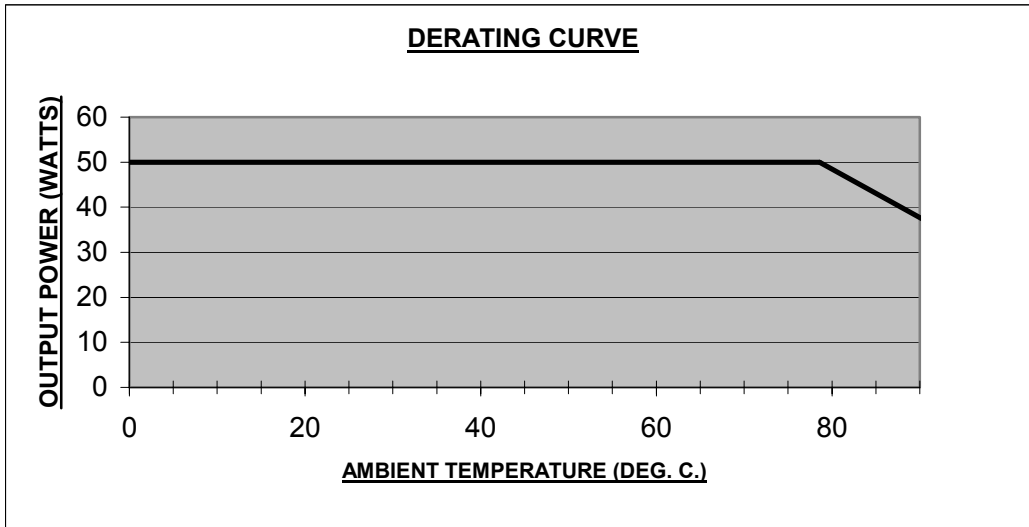
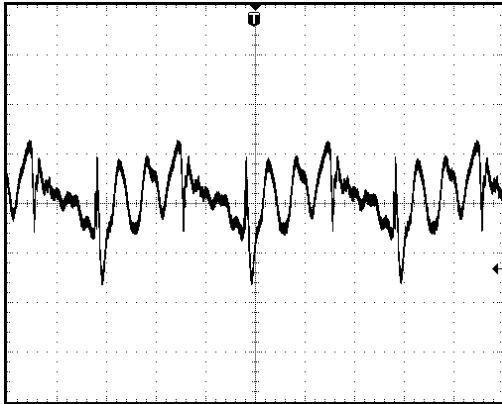
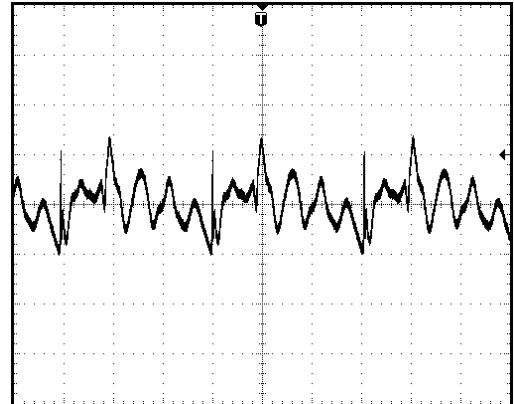


Technical Specifications		Model No.		LPQ48S5-50R			
All specifications are based on 25C, Nominal Line and Full Load unless otherwise noted. We reserve the right to change specifications based on technological advances.							
SPECIFICATION	Related condition			MIN	NOM	MAX	Unit Measured
				INPUT			
Turn on at					35		Volt DC
Turn off at					34		Volt DC
Input Over voltage Shutdown							
Turn off at					n/a		Volt DC
Turn on at					n/a		Volt DC
Operating Voltage Range	Rated Input Voltage			36	48	75	Volt DC
Maximum Input Current	Low Line 100% load				1.55		A
No Load Input Current					74		mA
Input Current under "LOGIC OFF"					1		mA
Inrush Current Transient Rating					1		A ² Sec
Reflected Ripple Current	12 uH / 33 uF input filter				4		mA
OUTPUT							
Output Voltage Set point				4.95	5	5.05	Volt DC
Output Voltage Regulation							
Over Load					± 0.2		%
Over Line					± 0.2		%
Over Temperature					0.02		% / °C
Output Voltage Ripple and Noise							
Basic Ripple					47	100	mV
Spikes P-P					60	100	mV
Output Current Ranges	Rated Output Current			0		10	A
Output Current Limit	Self Resetting			11	13	15	A
Short Term Output Current Surge							A/sec
DYNAMIC CHARACTERISTICS							
Input Voltage Ripple Rejection	120 Hz				60		dB
Output Transient and Load Changes							
Load step / Δ V	X	50 to 75%	50 to 100%		75		mV
Load step / Δ V	X	75 to 50%	100 to 50 %		60		mV
Recovery Time	To within 1% Rated Vo				50		μsec
Turn on Delay	From Vin(nom) to 90% Vout (nom)				65		msec
Overshoot of Output Voltage	Full Load Resistive				0		%
EFFICIENCY							
@ 100% load					92		%
@ 75% load					91		%
@ 50% load					88		%
@ 25% load					80		%
TEMPERATURE CONSIDERATIONS							
Thermal Resistance							
Normal Convection	Rθc-a						°C/Watt
100 lfm							°C/Watt
200 lfm							°C/Watt
300 lfm							°C/Watt
400 lfm							°C/Watt
Heatsink Considerations	Available, Contact Factory						
General Technical Data							
Switching Frequency	Fixed				330		KHz
Remote ON OFF Control	Active HIGH or LOW						High/Low TTL
Trimmability				4.5		5.5	Volt DC
Over Temperature Shutdown	PCB Temperature					125	°C
MTBF							
	Bellcore TR-332				1.81 E6		Hours

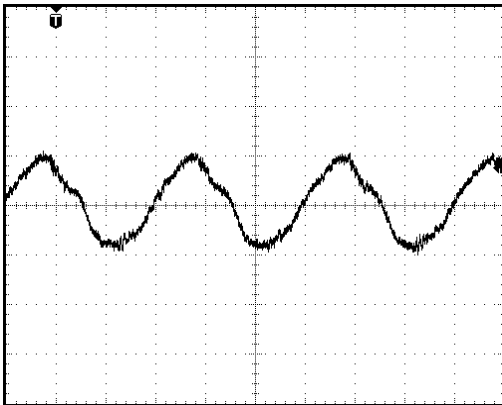




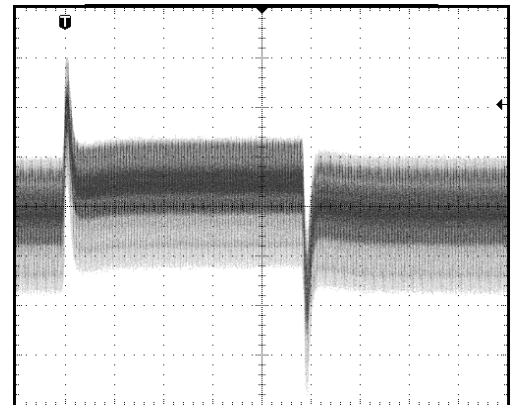
TYPICAL OUTPUT RIPPLE
20mV/div, 1uS/div, full load, 36Vin
10uF // 0.1uF decoupling caps room temp



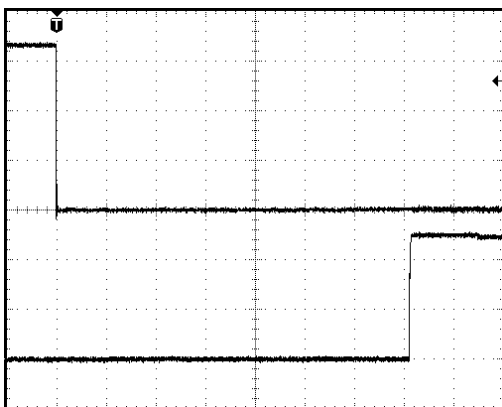
TYPICAL OUTPUT RIPPLE
50mV/div, 1uS/div, full load 75Vin
10uF // 0.1uF decoupling cap room temp



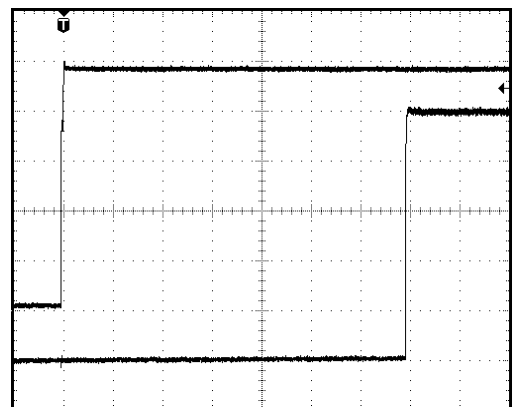
TYPICAL INPUT RIPPLE CURRENT
2mA/div, 1uS/div, full load 48Vin at
room temp with a 12 uH / 33 uF input filter



TYPICAL TRANSIENT RESPONSE
20mV/div, 200uS/div, 50% full load
to 75% full load 48Vin room temp



TYPICAL RISE TIME & TURN-ON DELAY
USING LOGIC ENABLE
2V/div, 10mS/div (Vout), 1V/div 10mS/div (logic
enable) 36Vin, full load at room temp



TYPICAL RISE TIME & TURN-ON DELAY
WITH Vin 0-48V
1V/div, 10mS/div (Vout), 10V/div, 10mS/div (Vin)
at room temp