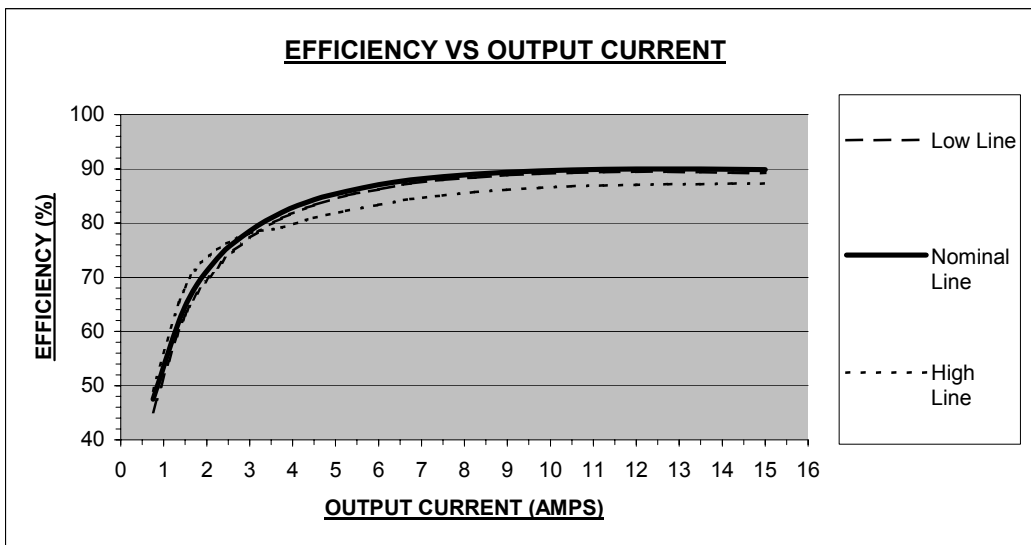
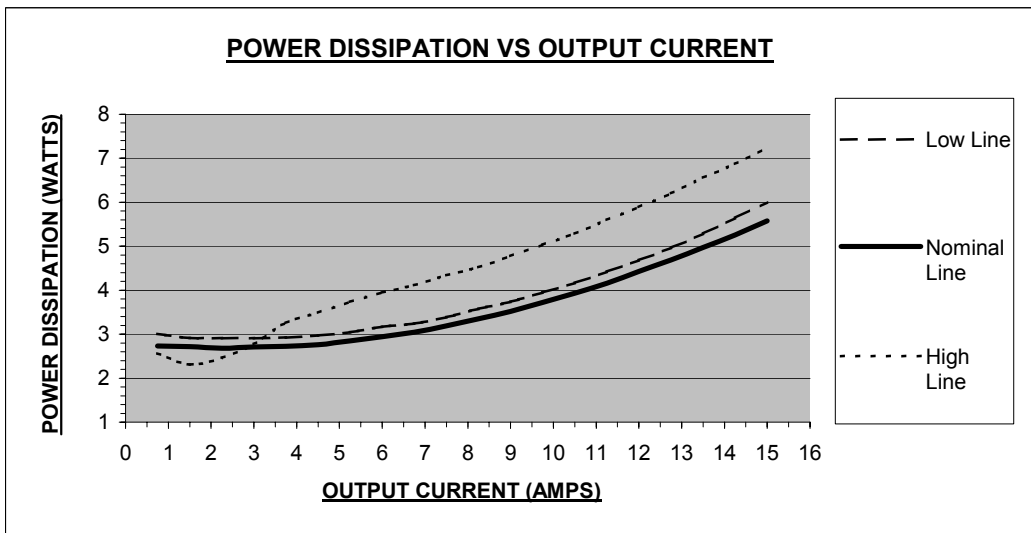
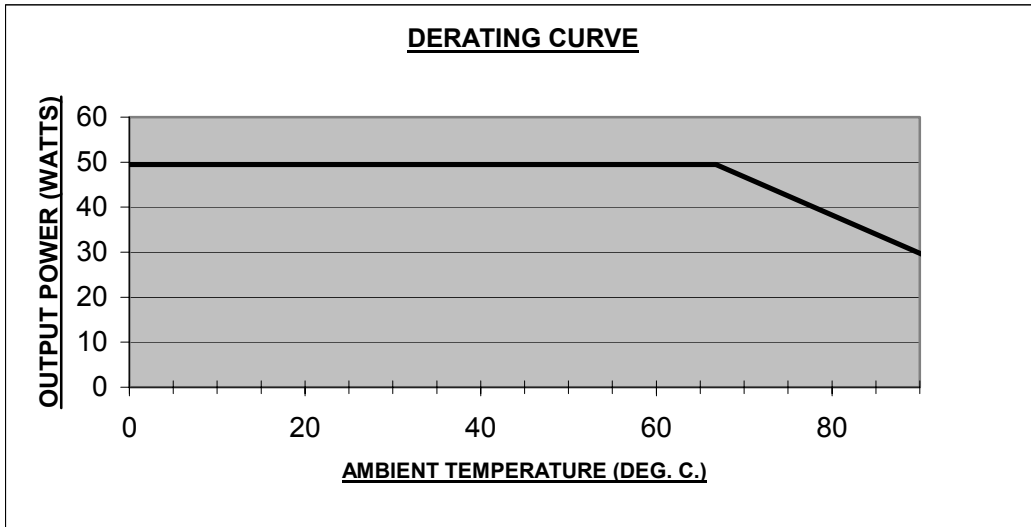
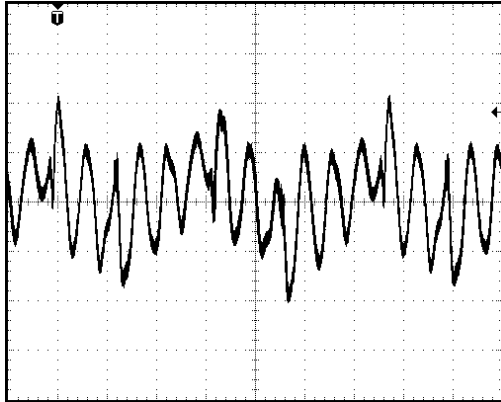
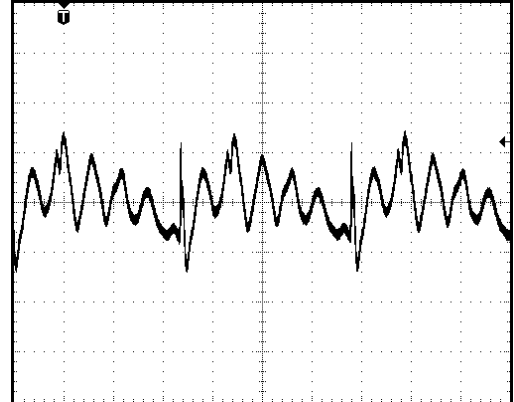


Technical Specifications		Model No. LPQ48S3.3-50R			
All specifications are based on 25C, Nominal Line and Full Load unless otherwise noted. We reserve the right to change specifications based on technological advances.					
SPECIFICATION	Related condition				Unit Measured
		MIN	NOM	MAX	
INPUT					
Turn 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		1.54		A
No Load Input Current			60		mA
Input Current under "LOGIC OFF"			2		mA
Inrush Current Transient Rating			1		A ² Sec
Reflected Ripple Current	12uH / 33uF input filter		4		mA
OUTPUT					
Output Voltage Set point		3.267	3.3	3.333	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			50	100	mV
Spikes P-P			80	100	mV
Output Current Ranges	Rated Output Current	0		15	A
Output Current Limit	Self Resetting	16.5	19.5	22.5	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%		135		mV
Load step / Δ V	X 75 to 50%		130		mV
Recovery Time	To within 1% Rated Vo		50		μsec
Turn on Delay	From Vin(nom) to 90% Vout (nom)		50		msec
Overshoot of Output Voltage	Full Load Resistive		0		%
EFFICIENCY					
@ 100% load			90		%
@ 75% load			90		%
@ 50% load			89		%
@ 25% load			82		%
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		2.97		3.63	Volt DC
Over Temperature Shutdown	PCB Temperature			125	°C
MTBF					
	Bellcore TR-332		1.81 E6		Hours

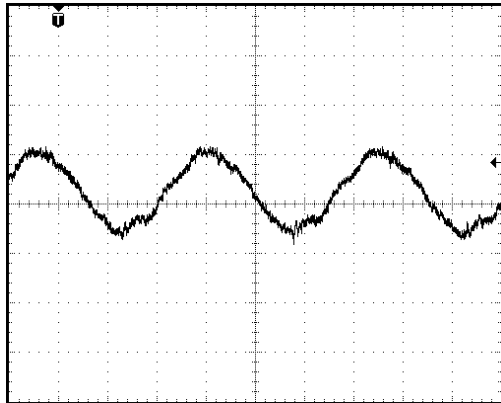




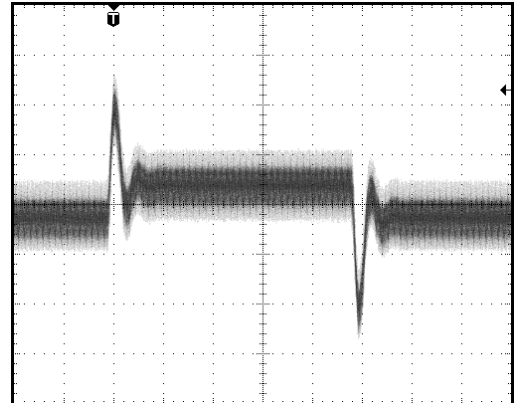
TYPICAL OUTPUT RIPPLE
20mV/div, 1uS/div, full load, 36V_{in}
10uF // 0.1uF decoupling caps room temp



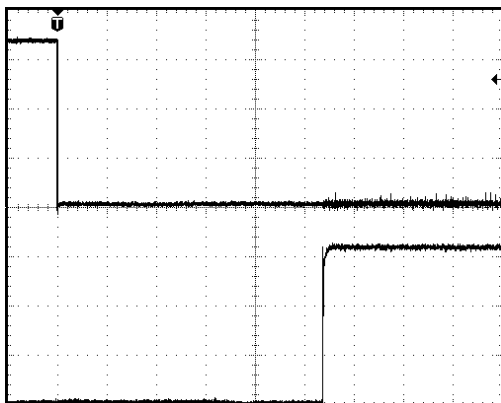
TYPICAL OUTPUT RIPPLE
50mV/div, 1uS/div, full load 75V_{in}
10uF // 0.1uF decoupling cap room temp



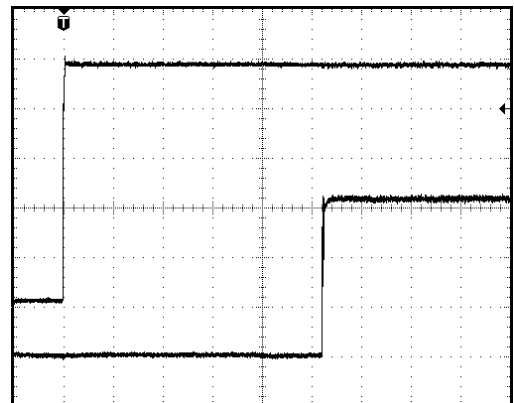
TYPICAL INPUT RIPPLE CURRENT
2mA/div, 1uS/div, full load 48V_{in} at
room temp with a 12uH / 33uF input filter



TYPICAL TRANSIENT RESPONSE
50mV/div, 200uS/div, 50% full load
to 75% full load 48V_{in} room temp



TYPICAL RISE TIME & TURN-ON DELAY
USING LOGIC ENABLE
1V/div, 10mS/div (V_{out}), 1V/div 10mS/div (logic
enable) 36V_{in}, full load at room temp



TYPICAL RISE TIME & TURN-ON DELAY
WITH V_{in} 0-48V
1V/div, 10mS/div (V_{out}), 10V/div, 10mS/div (V_{in})
at room temp