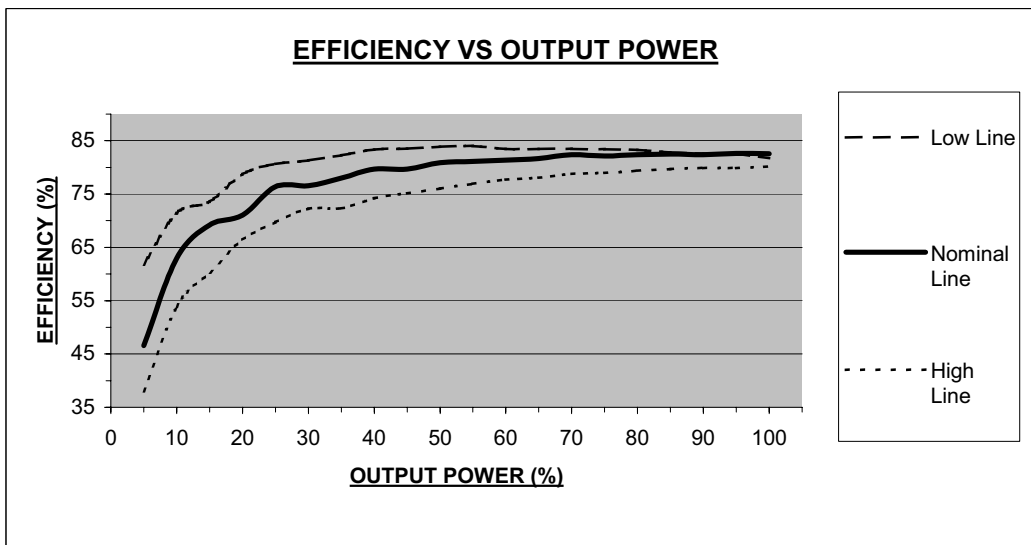
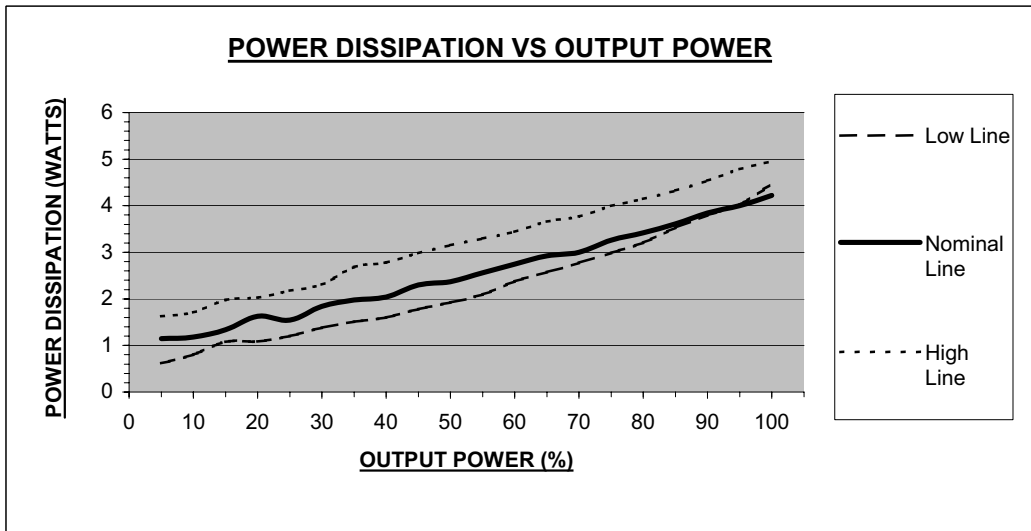
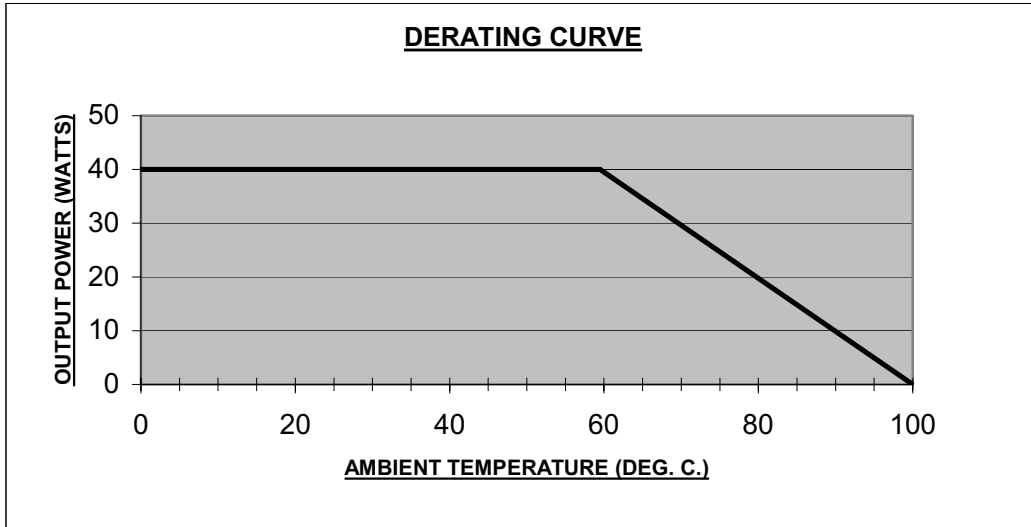
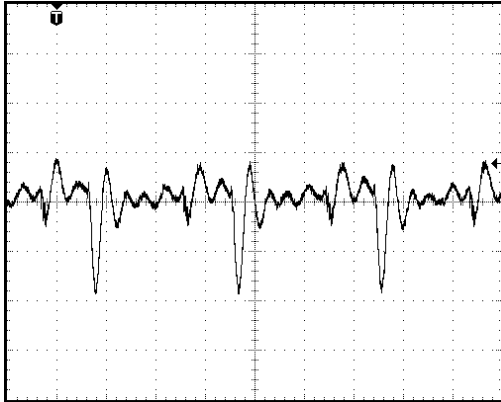
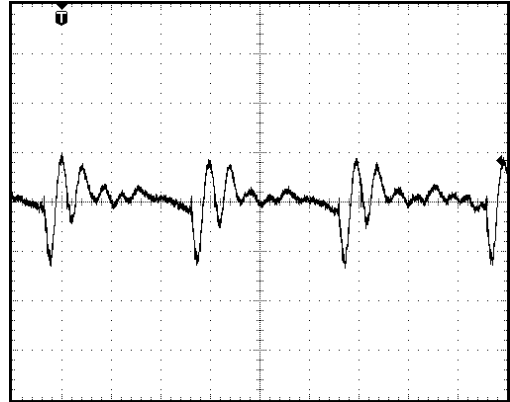


Technical Specifications		Model No.		QAW48T15-40		
All specifications are based on 25C, Nominal Line and Full Load unless otherwise noted. We reserve the right to change specifications based on technological advances.						
SPECIFICATION	Related condition				Unit Measured	
		MIN	NOM	MAX		
<b>INPUT</b>						
Turn on at			16.5		Volt DC	
Turn off at			15.5		Volt DC	
Input Over voltage Shutdown						
Turn off at			77		Volt DC	
Turn on at			76		Volt DC	
Operating Voltage Range	Rated Input Voltage	18	48	75	Volt DC	
Maximum Input Current	Low Line 100% load		2.7		A	
No Load Input Current			28		mA	
Input Current under "LOGIC OFF"			4		mA	
Inrush Current Transient Rating			1		A <sup>2</sup> Sec	
Reflected Ripple Current	20 MHz w/low source impedance		700		mA	
<b>OUTPUT</b>						
Output Voltage Set point		4.95/±14.25	5 / ±15	5.05/±15.75	Volt DC	
Output Voltage Regulation						
Over Load			1 / ±5		%	
Over Line			1 / ±1		%	
Over Temperature			0.2 / 1		% / °C	
Output Voltage Ripple and Noise						
Basic Ripple			25	100	mV	
Spikes P-P			50	100	mV	
Output Current Ranges	Rated Output Current	0.4 / ±0.133		4 / ±0.667	A	
Output Current Limit	Self Resetting	5.2 / ±0.87	6 / ±1	6.8 / ±1.14	A	
Short Term Output Current Surge					A/sec	
<b>DYNAMIC CHARACTERISTICS</b>						
Input Voltage Ripple Rejection	120 Hz		60		dB	
Output Transient and Load Changes						
Load step / ΔV	X 50 to 75%		50		mV	
Load step / ΔV	X 75 to 50%		45		mV	
Recovery Time	To within 1% Rated Vo		100		μsec	
Turn on Delay	From Vin(nom) to 90% Vout (nom)		475		msec	
Overshoot of Output Voltage	Full Load Resistive		0		%	
<b>EFFICIENCY</b>						
@ 100% load			83		%	
@ 75% load			82		%	
@ 50% load			81		%	
@ 25% load			76		%	
<b>TEMPERATURE CONSIDERATIONS</b>						
Thermal Resistance						
Normal Convection	R0c-a		4.84		°C/Watt	
100 lfm					°C/Watt	
200 lfm					°C/Watt	
300 lfm					°C/Watt	
400 lfm					°C/Watt	
Heatsink Considerations	Available, Contact Factory					
<b>General Technical Data</b>						
Switching Frequency	Fixed		350		KHz	
Remote ON OFF Control	Active HIGH, Open Collector				TTL	
Trimmability		4.75/±14.25		5.25/±15.75	Volt DC	
Over Temperature Shutdown	Case Temperature			105	°C	
<b>MTBF</b>						
	Bellcore TR-332		3.51E6		Hours	

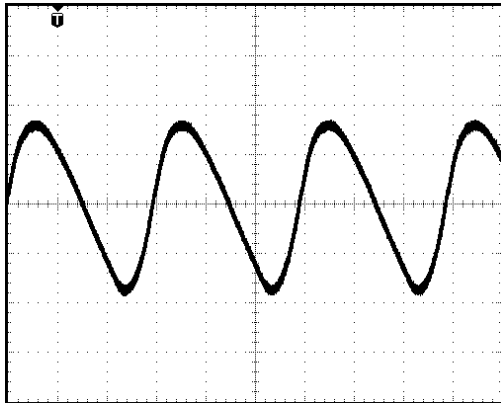




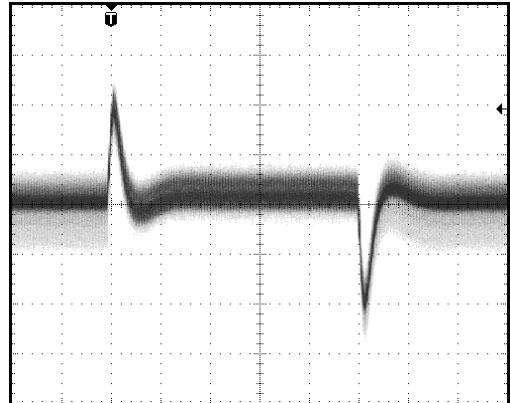
TYPICAL OUTPUT RIPPLE  
 20mV/div, 1uS/div, full load, 18Vin  
 0.1uF decoupling cap at room temp  
 (measured at main output)



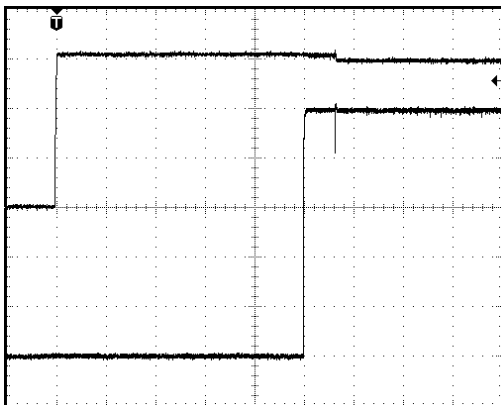
TYPICAL OUTPUT RIPPLE  
 20mV/div, 1uS/div, full load 75Vin  
 0.1uF decoupling cap at room temp  
 (measured at main output)



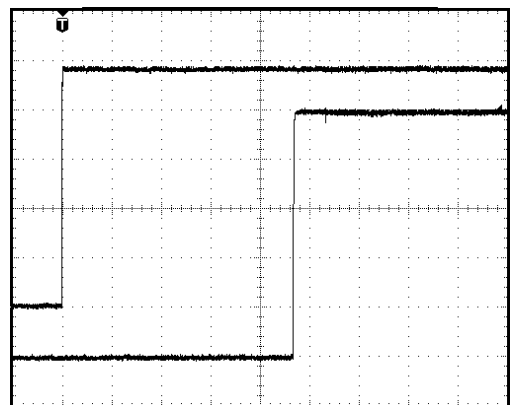
TYPICAL INPUT RIPPLE CURRENT  
 200mA/div, 1uS/div, full load 48Vin at  
 room temp with a low source impedance



TYPICAL TRANSIENT RESPONSE  
 20mV/div, 200uS/div, 50% full load  
 to 75% full load 48Vin room temp  
 (measured at main output w/aux. outputs at full load)



TYPICAL RISE TIME & TURN-ON DELAY  
 USING LOGIC ENABLE  
 1V/div, 100mS/div (Vout), 2V/div 100mS/div (logic  
 enable) 18Vin, full load at room temp



TYPICAL RISE TIME & TURN-ON DELAY  
 WITH Vin 0-48V  
 1V/div, 100mS/div (Vout), 10V/div, 100mS/div (Vin)  
 at room temp