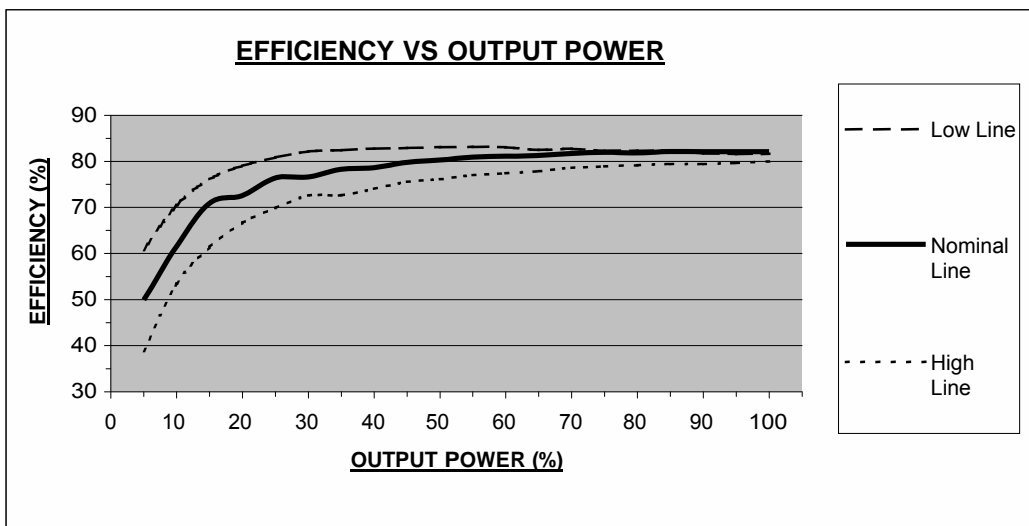
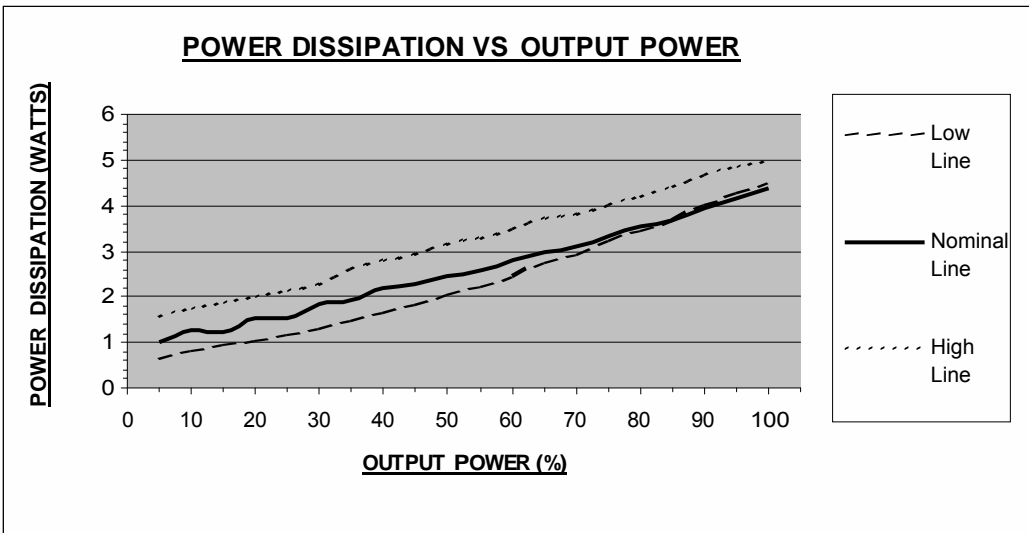
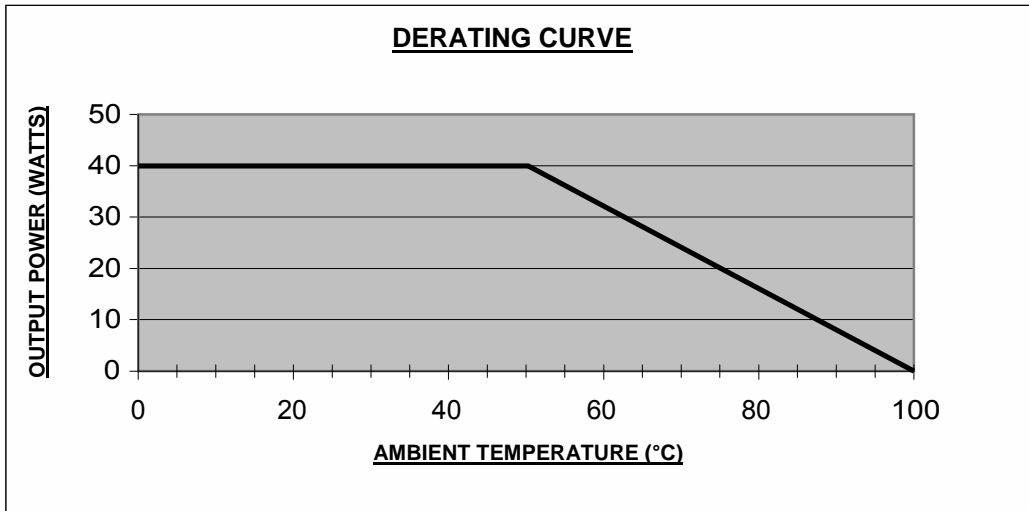
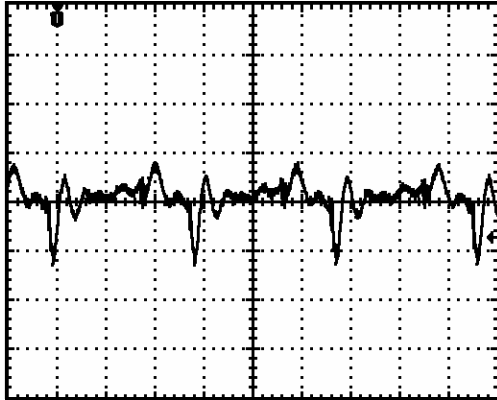


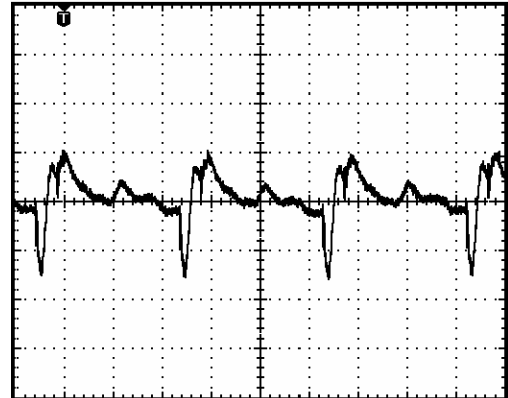


Technical Specifications		Model No. QAW48T12-40			
<p>All specifications are based on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted. We reserve the right to change specifications based on technological advances.</p>					
SPECIFICATION	Related condition	Min	Nom	Max	Unit
INPUT					
Turn On At			16.5		Vdc
Turn Off At			15.5		Vdc
Input Over Voltage Shutdown					
Turn On At			77.5		Vdc
Turn Off At			76.5		Vdc
Operating Voltage Range	Rated Input Voltage	18	48	75	Vdc
Maximum Input Current	Low Line 100% Load		2.74		A
No Load Input Current			28		mA
Input Current under "LOGIC OFF"			4		mA
Inrush Current Transient Rating			1		A ² Sec
Reflected Ripple Current	20MHz w/low source impedance		725		mA
OUTPUT					
Output Voltage Set point		4.95/±10.81	5 / ±12	5.05/±13.20	Vdc
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		0.4 / ±0.083		4 / ±0.833	A
Output Current Limit	Rated Output Current	5.2 / ±1.083	6 / ±1.25	6.8 / ±1.417	A
Short Term Output Current Surge	Self Resetting				A/sec
DYNAMIC CHARACTERISTICS					
Input Voltage Ripple Rejection	120 Hz		60		dB
Output Transient and Load Changes					
Load Step / ΔV	X 50 to 75% 50 to 100%		55		mV
Load Step / ΔV	X 75 to 50% 100 to 50%		50		mV
Recovery Time	To within 1% Rated Vo		90		μs
Turn On Delay	From Vin (nom) to 90% Vout (Nom)		475		μs
Overshoot of Output Voltage	Full Load Resistive		0		%
EFFICIENCY					
@ 100% load			82		%
@ 75% load			82		%
@ 50% load			80		%
@ 25% load			76		%
TEMPERATURE CONSIDERATIONS					
Thermal Resistance					
Normal Convection	Rθc-a		5.09		°C / Watt
100 lfm					
200 lfm					
300 lfm					
400 lfm					
Heatsink Considerations	Available, Contact Factory				°C / Watt
GENERAL TECHNICAL DATA					
Switching Frequency	Fixed		350		KHz
Remote ON/OFF Control	Active HIGH, Open Collector				TTL
Trimmability		4.75 / ±11.4		5.25 / ±12.6	Vdc
Over Temperature Shutdown	Case Temperature			105	°C
MTBF					
	Bellcore TR-332		3.51E6		Hours

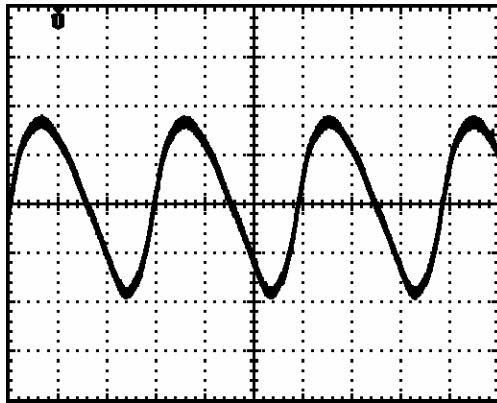




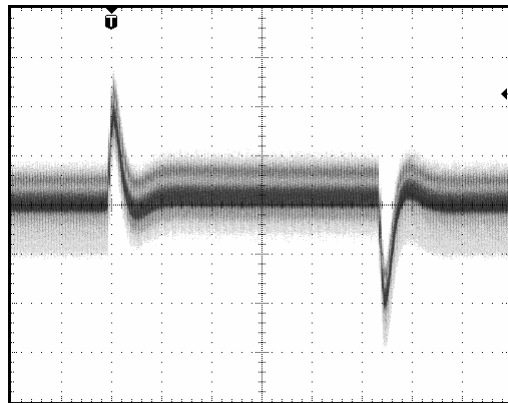
TYPICAL OUTPUT RIPPLE
20mV/div, 1 μ S/div, full load, 18Vin
0.1 μ F decoupling cap at room temp
(measured at main output)



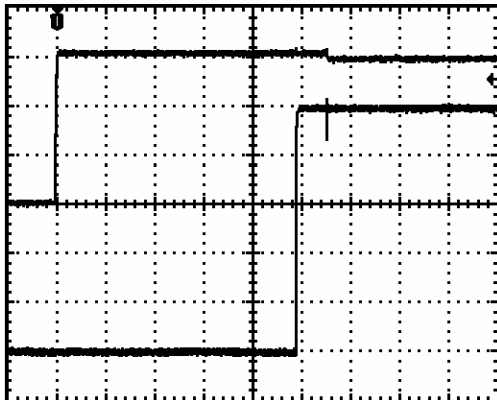
TYPICAL OUTPUT RIPPLE
20mV/div, 1 μ S/div, full load 75Vin
0.1 μ F decoupling cap at room temp
(measured at main output)



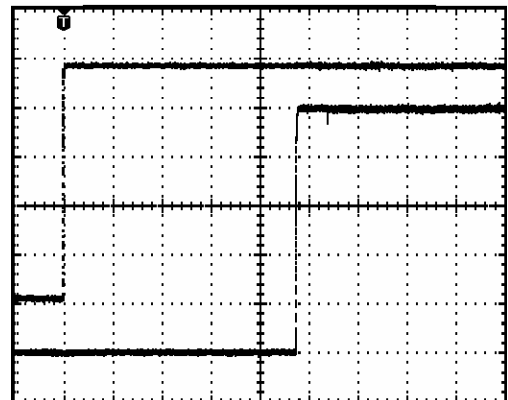
TYPICAL INPUT RIPPLE CURRENT
200mA/div, 1 μ S/div, full load 48Vin at
room temp with a low source impedance



TYPICAL TRANSIENT RESPONSE
20mV/div, 200 μ S/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



COMPANY INFORMATION

Wall Industries, Inc. has created custom and modified units for over 40 years. Our in-house research and development engineers will provide a solution that exceeds your performance requirements on-time and on budget. Our ISO9001-2008 certification is just one example of our commitment to producing a high quality, well-documented product for our customers.

Our past projects demonstrate our commitment to you, our customer. Wall Industries, Inc. has a reputation for working closely with its customers to ensure each solution meets or exceeds form, fit and function requirements. We will continue to provide ongoing support for your project above and beyond the design and production phases. Give us a call today to discuss your future projects.

Contact **Wall Industries** for further information:

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