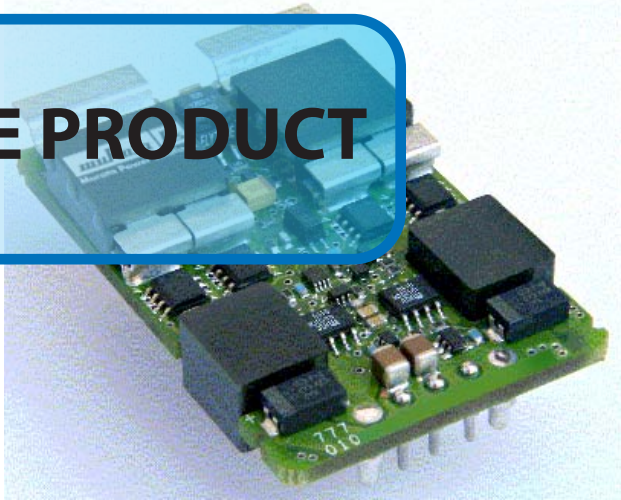


OBSOLETE PRODUCT

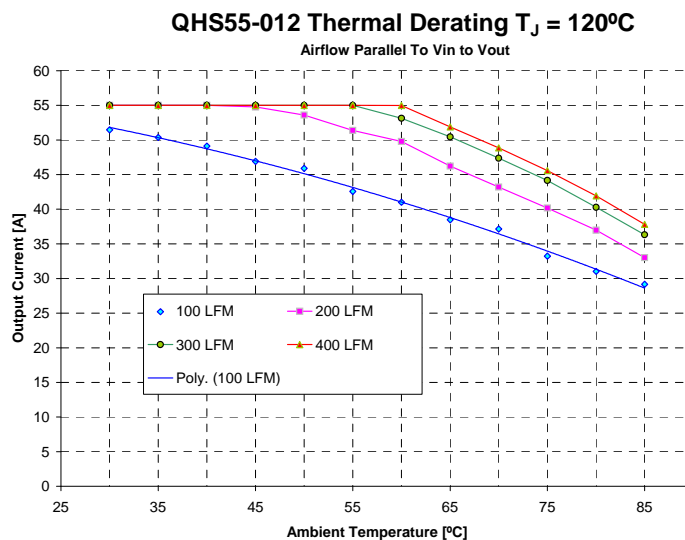


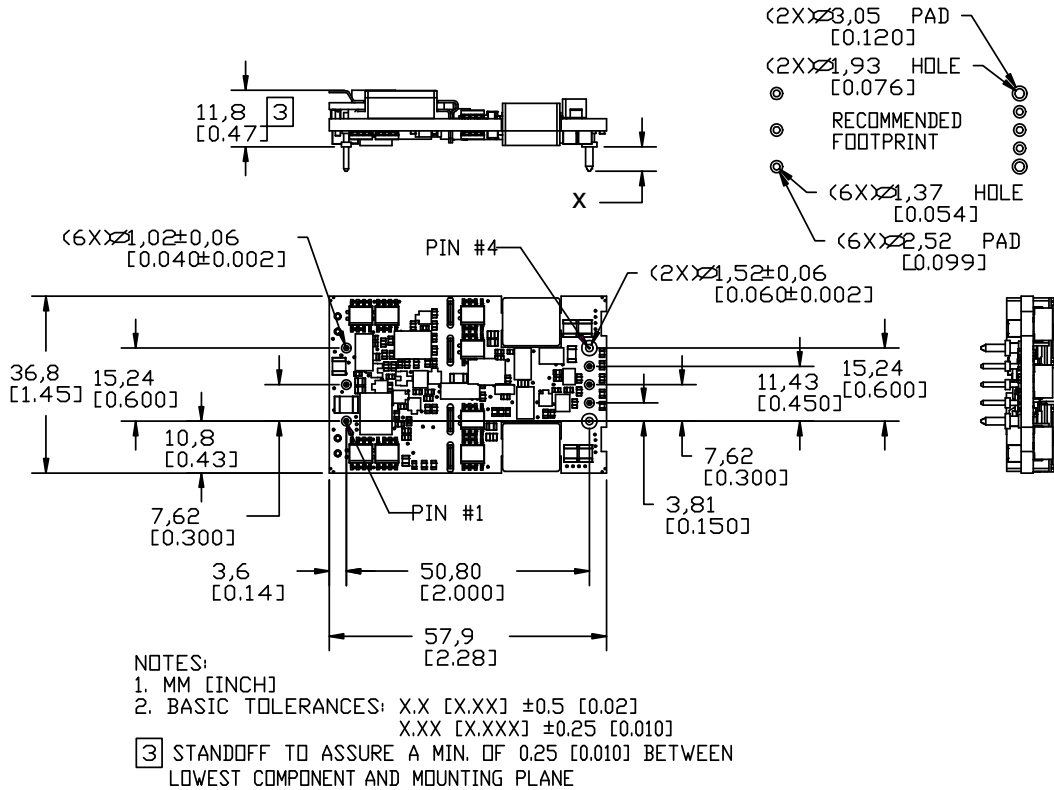
Model	1.2V		Units
Parameter			
Output Voltage Setpoint		1.18 – 1.22	Vdc
Line/Load Regulation	Max	0.1%, 0.2%	% Vo
Output total regulation		1.16 – 1.24	Vdc
Output adjust		90-110	%Vo,nom
Remote-sense Comp.		10%	V
Output Ripple & Noise (note 2)	Max	100	mVp-p
Output Current	Min	0.1	A
	Max	55	A
Efficiency (48V, Full load, 25C)	Typ	86.5%	%
External Capacitance	Max	40,000	μF
Transient Response (typ) (note3)	ΔVo	150	mV
	Ts	300	μs
Over-voltage trip point	-static	1.45 – 1.65	V
	-dynamic max	1.8	
Over-current trip point	Typ	66	A

All specifications at Ta=25C, Vin=48V, 300 LFM unless otherwise specified



Parameter	Conditions	Min.	Typ.	Max.	Units	
Input	Input Voltage (Vin)	36	48	75	Vdc	
	Reflected Ripple Current (see note 1)	--	--	10	mA p-p	
	Input Current			3	A	
	Inrush Transient			0.2	A ² s	
	Input Voltage Transient	100mS 10% duty cycle			100	V
Undervoltage Lockout	Turn-on	32		35	Vdc	
		31		34	Vdc	
	Turn-off	76		80	Vdc	
		75		79	Vdc	
Isolation	Input-Output	1500			Vdc	
	Resistance; input-output	10			Mohm	
Temperature	Operating Ambient	-40	--	85	°C	
	Storage	-40	--	125	°C	
Protection	Over-Temperature	Measured on PCB	--	120	--	Deg C
Physical Information	Dimensions	2.28"L x 1.45" W x 0.47"H (57.91 x 36.83 x 11.8 mm)				
MTBF(Bellcore)	Calculated at 40C ambient, 100% Iomax:	1,000,000 Hrs				
Safety	The QHS55-012 Complies with IEC/EN/CSA/UL 60950, provides basic insulation, input to output. c-UL-us (US and Canada) recognized. TUV (Bauart) approved.					



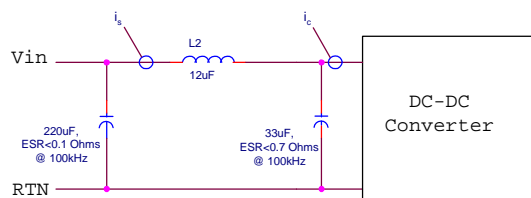


Pin Assignments

Pin #	Description	Pin #	Description	Pin #	Description
1	Vin (+)	4	Vout(-)	7	Sense +
2	Enable	5	Sense -	8	Vo (+)
3	Vin(-)	6	Vo adj		

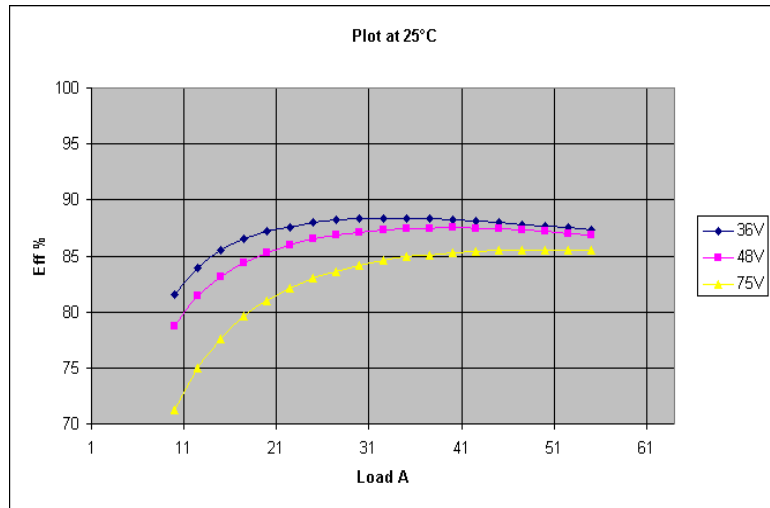
Notes:

1. Input Reflected Ripple is specified when measured with the filter shown below.

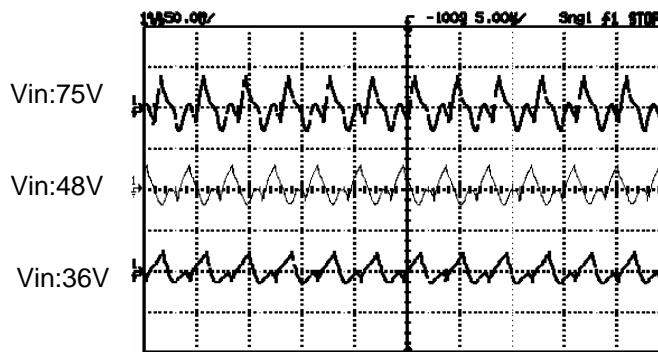


2. Output Ripple and noise is specified when measured with a 10uF tantalum and a 1uF ceramic capacitor at the converter output pins.
3. Transient response is specified without a capacitor at the output of the converter.
4. The Enable signal is Logic Low. It is referenced to Vi-. The pin should be tied to Vi- if it is not used. Isink = 0.1mA max, Voff = 15V max.

EFFICIENCY

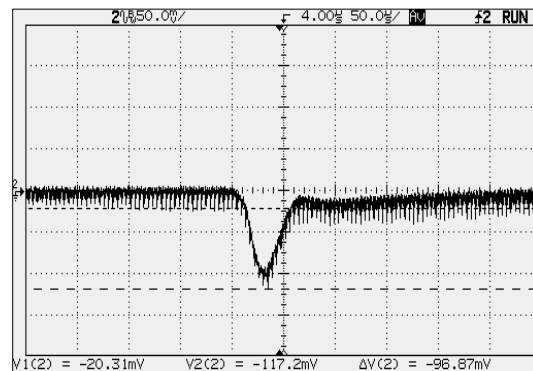
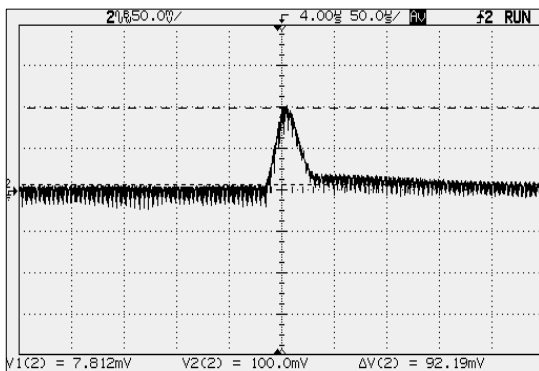


Output Ripple and Noise
 $I_o=55A$ BW 100MHz

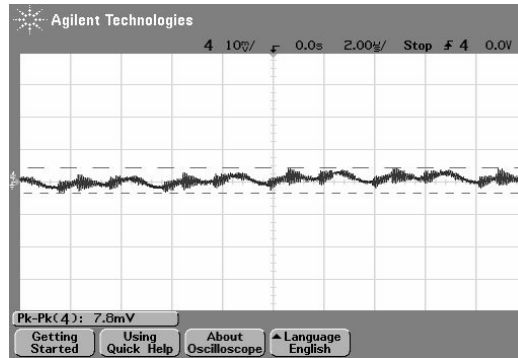


Output Voltage Response to Step Load
 (30A, -15A load step, $di/dt = 1A/us$, $T_{amb}=25C$,

Output Voltage Response to Step Load
 (30A, +15A load step, $di/dt = 1A/us$, $T_{amb}=25C, V_{in}=48V$)

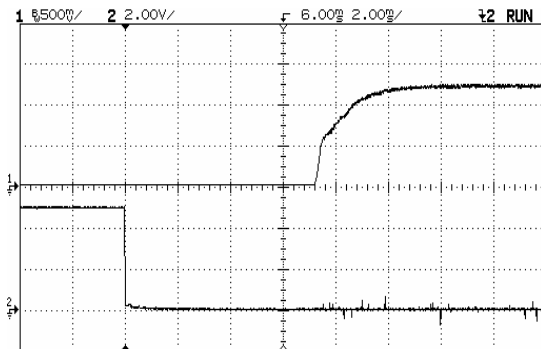


Input Reflected Ripple :
 Vin=48V, Iout=55A, 25C
 Scale: 0.5mA/mV

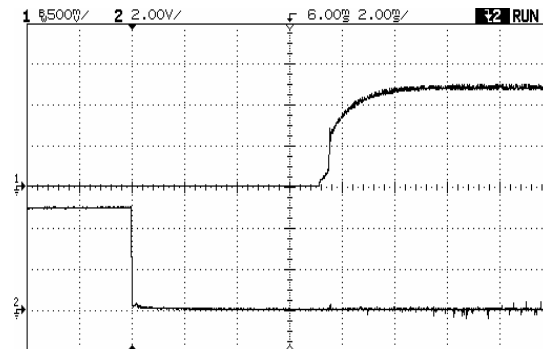


Startup Characteristics

Vin = 48V Iout = 0A Local O/P Sensing

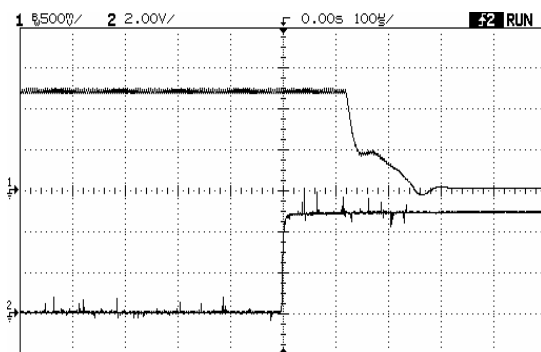


Vin = 48V Iout = 55A Local O/P Sensing



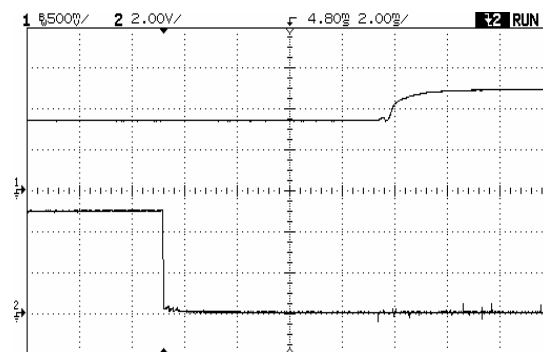
Turn-Off Characteristic

Vin = 48V Iout = 55A

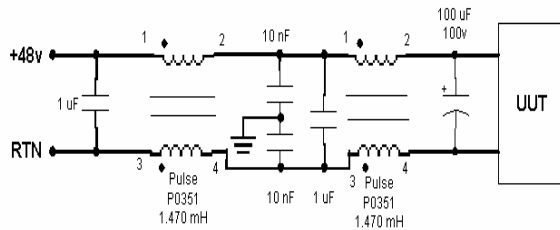


Pre-Bias Startup Characteristic

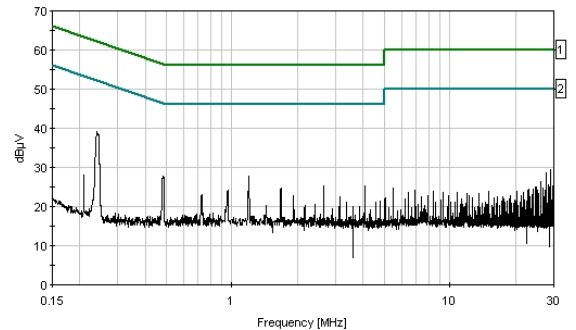
Vin = 48V Iout=0A, Cout=5000uF Pre-bias of 0.8V



Conducted EMI Characteristic with external filter as specified



CELESTICA TORONTO POWER Date: 5/27/2003 Time: 11:44:14 AM P/N:QHS055-012-0C0-P3 S/N:72300002
EMISSION LEVEL (dBuV) CISPR 22 B COND [QP] Test Lead: Positive 48VDC, Iout = 55A (Resistive Load)

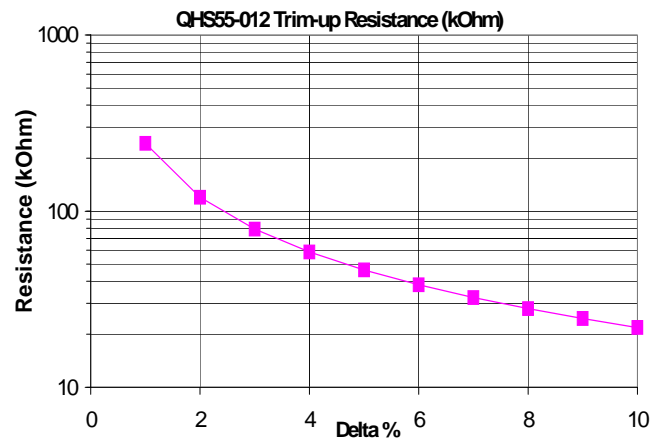


— Sweep Data — 1 - CISPR 22 B COND [QP] — 2 - CISPR 22 B COND [AVE]

$V_{REF} := 0.6125 \quad V_{out} := 1.2$

$$R_{up} := \left[5.11 V_{out} \frac{(100 + \%)}{V_{REF} \%} \right] - \left(\frac{511}{\%} \right) - 10.22$$

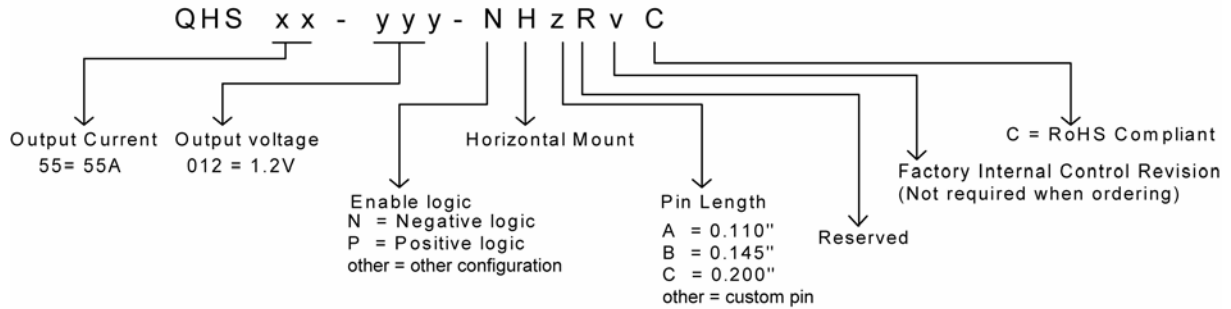
$$R_{down} := \left(\frac{511}{\%} \right) - 10.22$$



Safety considerations

The QHS series of converters comply with IEC/EN/CSA/UL 60950, providing basic insulation, input to output and is c-UL-us (US & Canada) certified. TUV approved. If this product is built into information technology equipment, the installation must comply with the above standard. An external input fuse (5A to 30A recommended) must be used to meet the above requirements. The output of the converter [Vo(+)/Vo(-)] is considered to remain within SELV limits when the input to the converter meets SELV or TNV-2 requirements.

Part Number Designations



Murata Power Solutions, Inc.
 11 Cabot Boulevard, Mansfield, MA 02048-1151 U.S.A.
 ISO 9001 and 14001 REGISTERED



**This product is subject to the following operating requirements and the Life and Safety Critical Application Sales Policy:
 Refer to: <http://www.murata-ps.com/requirements/>**

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- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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