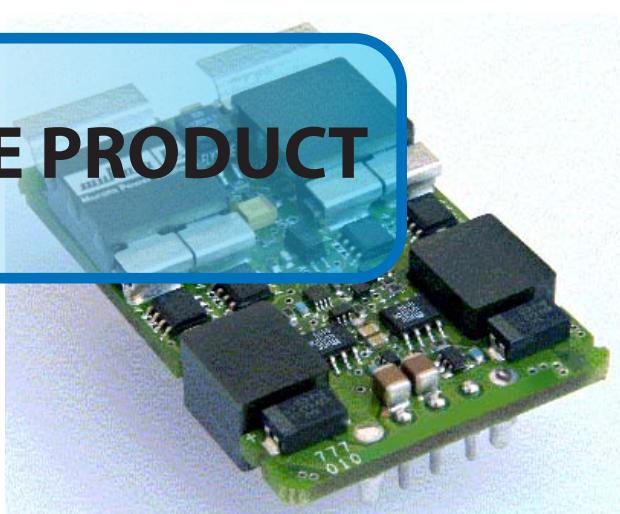


OBSOLETE PRODUCT



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
25% step, 1A/µs	Ts	300	µs
Over-voltage trip point	-static	1.45 – 1.65	
	-dynamic	max	V
		1.8	
Over-current trip point	Typ	66	A

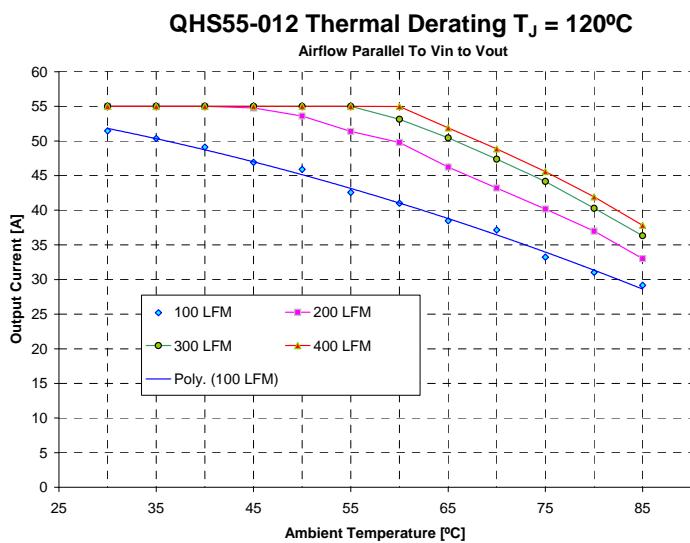
All specifications at Ta=25C, Vin=48V, 300 LFM unless otherwise specified

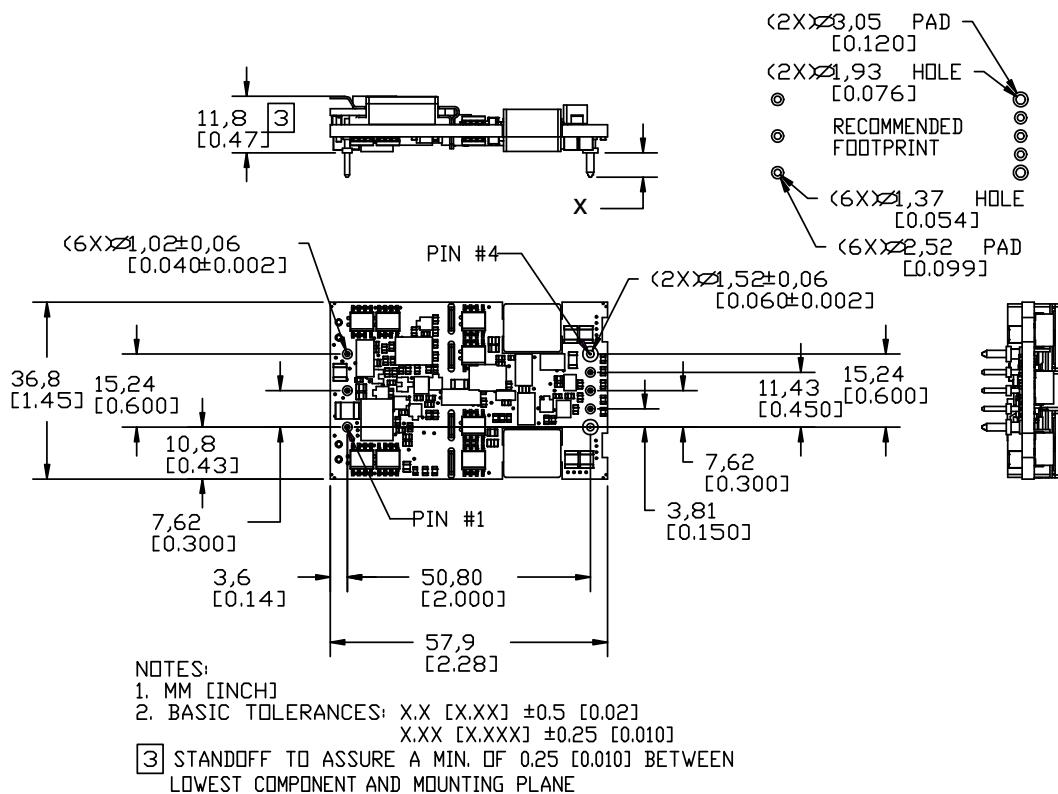


For full details go to
www.murata-ps.com/rohs

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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	
	Turn-off		31	34	Vdc	
	Over-voltage lockout	Turn-off	76	80	Vdc	
	Turn-on		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% lomax:			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.					



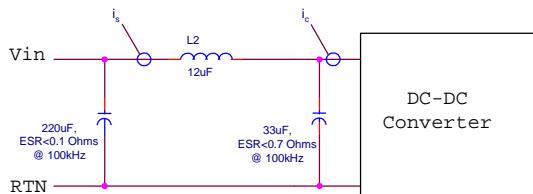


Pin Assignments

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

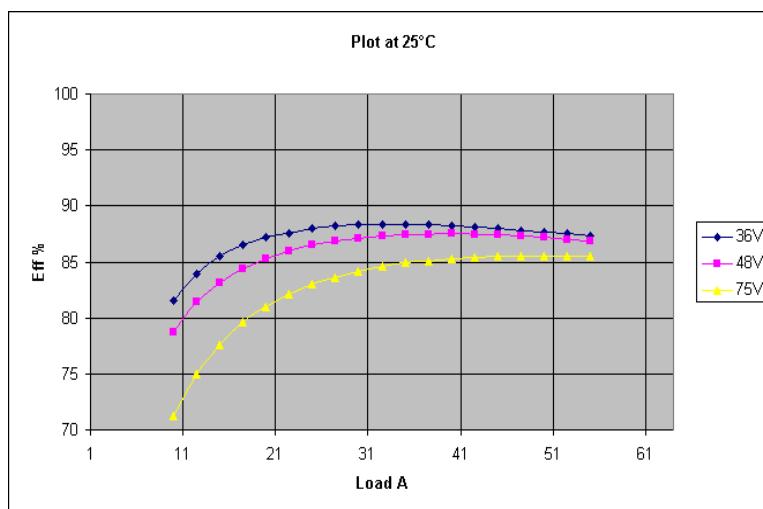
Notes:

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

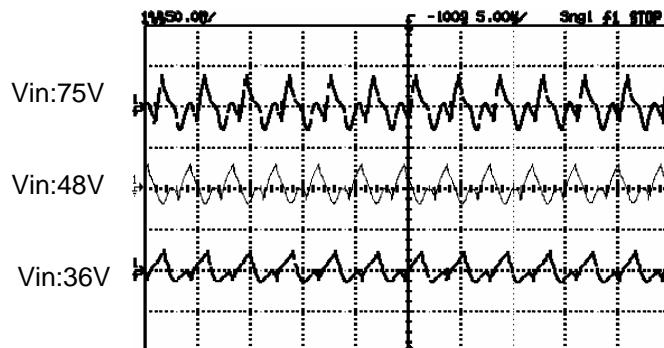


2. Output Ripple and noise is specified when measured with a 10uF tantalum and a 1uF ceramic capacitor at the converter output pins.
3. Transient response is specified without a capacitor at the output of the converter.
4. The Enable signal is Logic Low. It is referenced to Vi-. The pin should be tied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

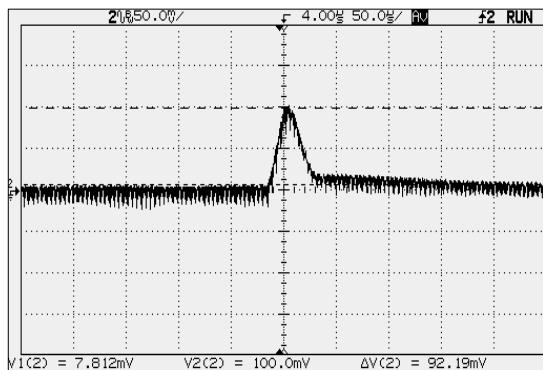
EFFICIENCY



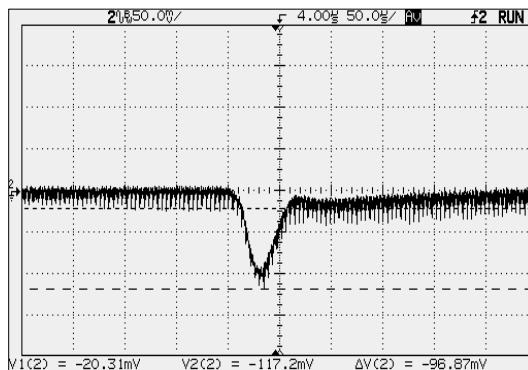
Output Ripple and Noise
Io=55A BW 100MHz



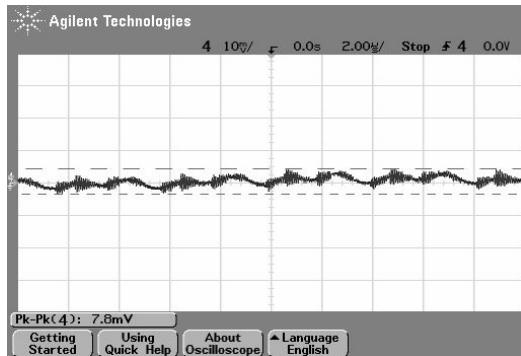
Output Voltage Response to Step Load
(30A, -15A load step, di/dt = 1A/us, Tamb=25C,



Output Voltage Response to Step Load
(30A, +15A load step, di/dt = 1A/us, Tamb=25C, Vin=48V)

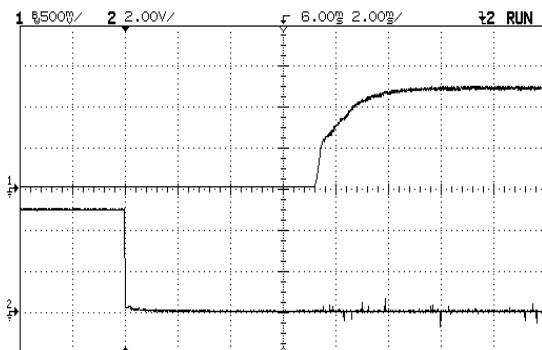


Input Reflected Ripple :
 Vin=48V, Iout=55A, 25C
 Scale: 0.5mA/mV

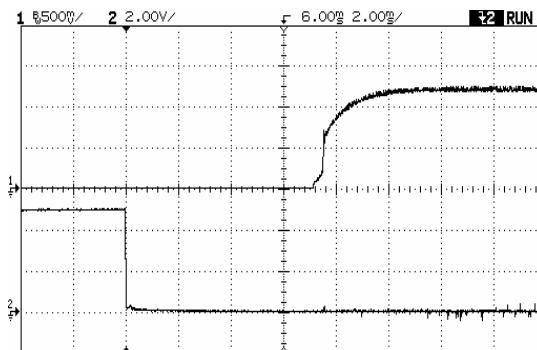


Startup Characteristics

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

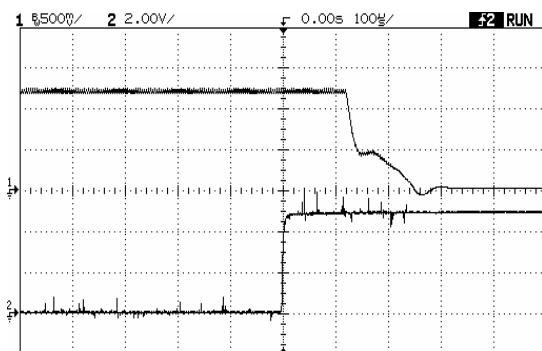


Vin = 48V Iout = 55A Local O/P Sensing



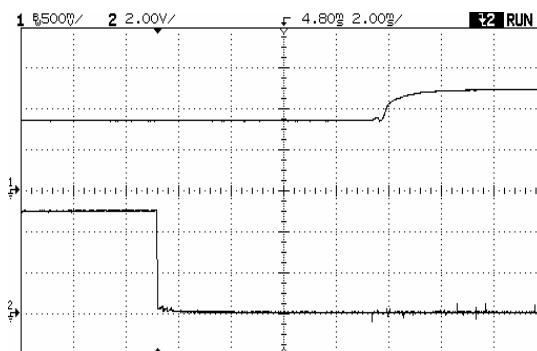
Turn-Off Characteristic

Vin = 48V Iout = 55A

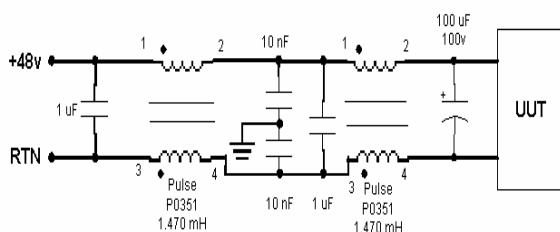


Pre-Bias Startup Characteristic

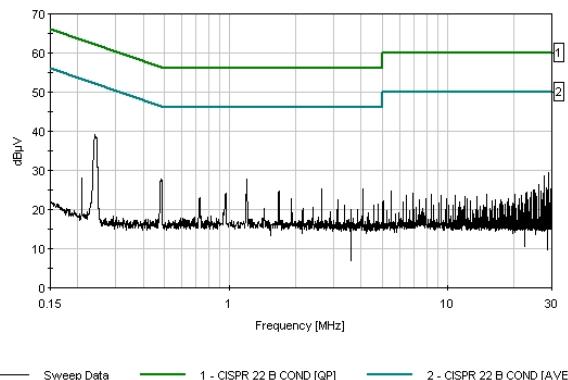
Vin = 48V Iout=0A, Cout=5000uF Pre-bias of 0.8V



Conducted EMI Characteristic with external filter as specified



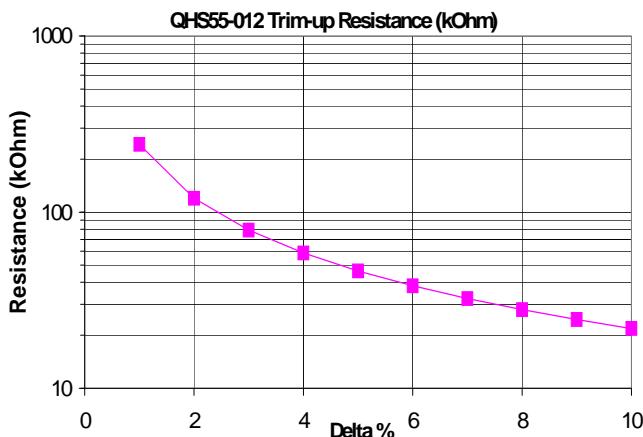
CELESTICA TORONTO POWER Date: 5/27/2003 Time: 11:44:14 AM P/N:GHS055-012-0C0-P3 S/N:72300022
EMISSION LEVEL (dBuV) CISPR 22 B COND [QP] Test Lead: Positive 48VDC, Iout = 55A (Resistive Load)



$$VREF := 0.6125 \quad Vout := 1.2$$

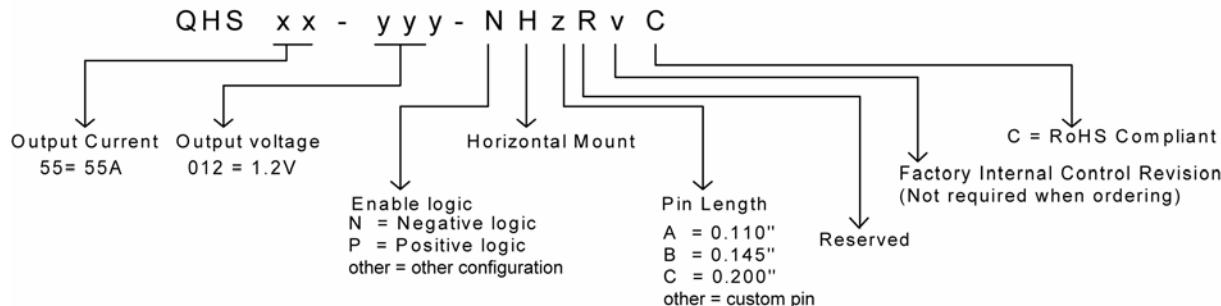
$$R_{up} := \left[5.11 Vout \frac{(100 + \%)}{VREF \%} \right] - \left(\frac{511}{\%} \right) - 10.22$$

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



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

www.murata-ps.com/support



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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- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- 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);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помошь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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