

## DATASHEET

# QS200-SC48 $\pm 190$ Vdc to 48 Vdc Line Power Remote Converter



### Features and Advantages

- Converts up four 100VA channels of  $\pm 190$  Vdc from an upstream converter into highly reliable 48 Vdc to power customer equipment on the remote end.
- Flexibly provides up to 300W, (6A) of nominal 48 Volt power (actual output voltage is 55V).
- Efficient - Up to 92% at full load
- Operates over a broad temperature range ( $-40^{\circ}\text{C}$  through  $+65^{\circ}\text{C}$ ).
- IP68 rated and Hardened for outdoor operation with natural convection cooling.
- Fail safe performance – outputs from all 4 input channels are combined into a single output. With 75W of output per input channel, if one input channel were lost, 225W would still be available on the output.
- Alarm output (Form C Isolated Contact) for any local failure

### Electrical Specifications

#### Input Voltage

Operating input voltage	130 to 400 dc measured between each pair of input wires.
DC input current	Max draw between 235 and 250 ma per each of 4 channels

#### Output

$V_{out}$ Setpoint	$-55.5 V_{dc}$
Voltage Range	$-52$ to $-56 V_{dc}$
$I_{out}$	6A, 300W Max Output Power $< 4 \times (V_{in} \times .235A) \times \eta$
Ripple	140 $mV_{rms}$ , 250 $mV_{p-p}$
Efficiency ( $\eta$ )	91.2% peak
Thermal	$-40$ to $65^{\circ}\text{C}$ , Self protects above $65^{\circ}\text{C}$
Environmental	IP68, FCC Part 15, UL60950-1 & -21

### Wiring Connections

#### 3 Meter Input Cable (24 AWG Solid)

Circuit	Wire Pair Colors
1	Blue / Blue White
2	Orange / Orange White
3	Green / Green White
4	Brown / Brown White

#### 3 Meter Output Cable

Function	Wire Color
Power	$-48\text{V}$
	Return (positive)
Form C Alarm	Common
	Open on Alarm
	Close on Alarm

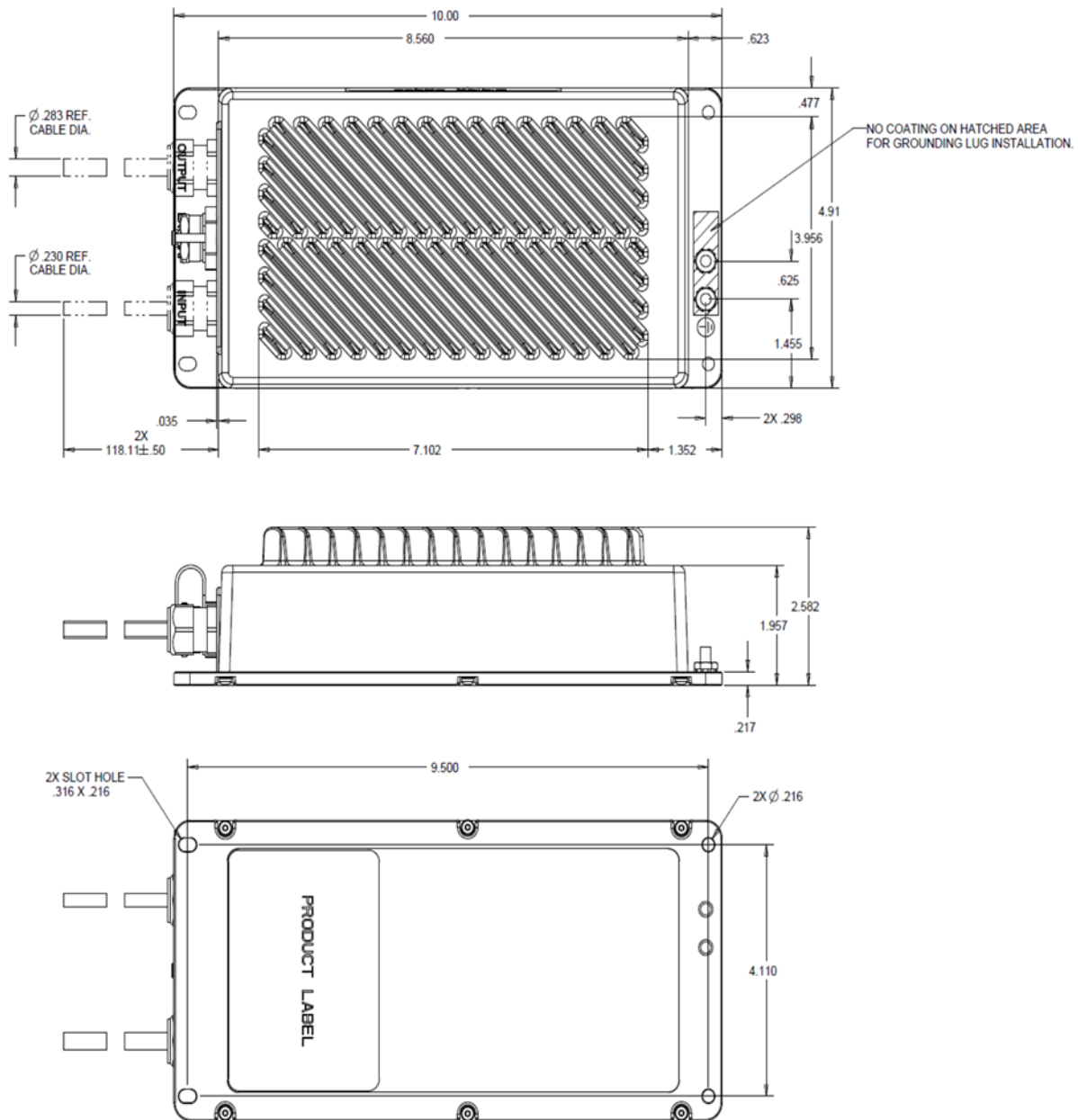
# Technical Specifications

## Ordering Information

Please contact your OmniOn Sales Representative for pricing, availability and optional features.

Ordering code	Description
150047872	QS200-SC48 DOWNSTREAM CONVERTER

## Physical Interface Dimensions



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