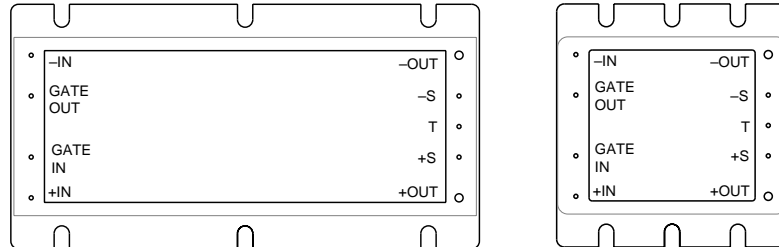


## DC-DC Converter Pinouts

### Pinout Description

VI-200, VI-J00  
Modules



#### -IN, +IN:

DC voltage inputs. See tables below for nominal input voltages and ranges for the VI-200, VI-J00, MI-200 and MI-J00 Family modules (data sheets contain Brownout and Transient ratings).

VI-200, VI-J00 Input Voltage Ranges			
Designator	Low	Nominal	High
0	10V	12V	20V
1	21V	24V	32V
W	18V	24V	36V
2	21V	36V	56V
3	42V	48V	60V
N	36V	48V	76V
4	55V	72V	100V
T	66V	110V	160V
5	100V	150V	200V
6	200V	300V	400V
7	100V	150/300V	375V

MI-200, MI-J00 Input Voltage Ranges			
Designator	Low	Nominal	High
2	18V	28V	50V
5	100V	155V	210V
6	125V	270V	400V
7	100V	165V	310V

#### GATE OUT, GATE IN:

**Gate Out:** The pulsed signal at the Gate Out terminal of a regulating driver module is used to synchronously drive the Gate In terminal of a companion booster module to effect power sharing between the driver and the booster. Daisy-chaining additional boosters (connecting Gate Out of one unit to Gate In of a succeeding unit) leads to a virtually unlimited power expansion capability.

**Gate In:** The Gate In pin on a driver module may be used as a logic Enable/Disable input. When Gate In is pulled low ( $<0.65V @ 6 mA$ , referenced to  $-V_{in}$ ), the module is turned off; when Gate In is floating (open collector), the module is turned on. The open circuit voltage of the Gate In pin is less than 10V.

#### -OUT, +OUT:

DC output pins. See the table below for output voltages and power levels of VI-200, VI-J00, MI-200 and MI-J00 Family modules.

Output Voltage	Power Level		Power Level	
	VI-200	VI-J00	MI-200	MI-J00
$<5V_{dc}$	10-40A	5-20A	10-30A	5-10A
$\geq 5V_{dc}$	50-200W	25-100W	50-100W	10-50W

Special output voltages from 1 to 95V; consult factory.

## Pinout Description (cont)

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### **T (Trim):**

Allows fixed or variable adjustment of the module output.

*Trimming Down:* Allows output voltage of the module to be trimmed down, with a decrease in efficiency. Ripple as a percent of output voltage goes up and input range widens since input voltage dropout (loss of regulation) moves down.

*Trimming Up:* Reverses the above effects.

### **-S, +S (-Sense, +Sense):**

Maintains specified output voltage to the load. Overvoltage protection will be activated in the VI-200/MI-200 and module will shut down if remote sense tries to boost output voltage above 110% of nominal. Do not exceed 0.25V drop in negative return; if the voltage drop exceeds 0.25V in the negative return path, the current limit setpoint will increase. Connect + sense to + out and -sense to -out at the module if remote sensing is not desired (see figure 4, pg 9-2).