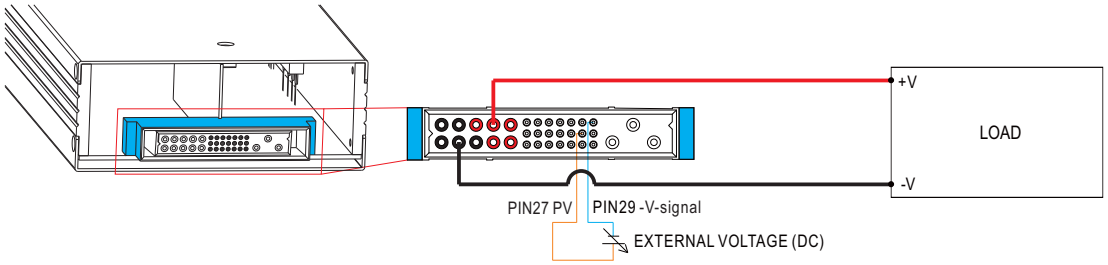
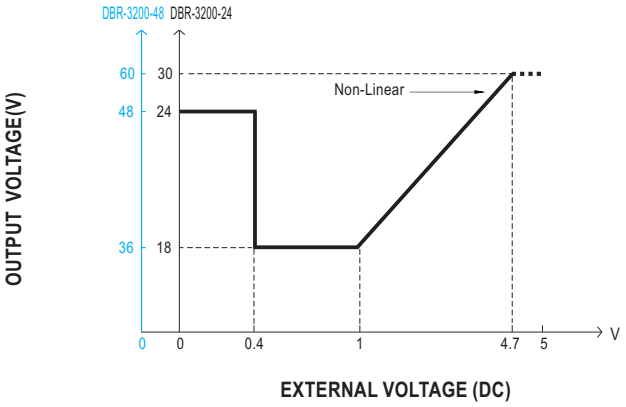
5. Output Voltage Programming (or, PV / remote voltage programming / remote adjust / margin programming / dynamic voltage trim)

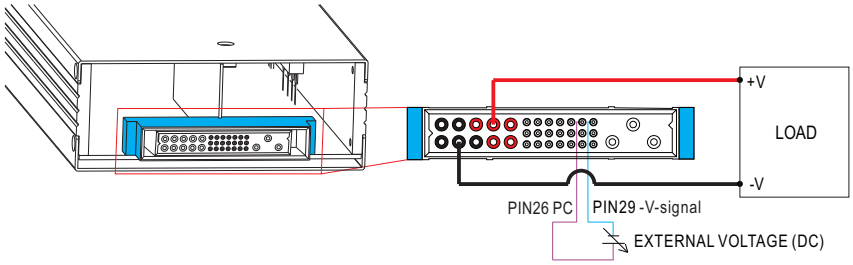
※ In addition to the adjustment via the built-in potentiometer, the output voltage can be trimmed to 75~125% of the nominal voltage by applying EXTERNAL VOLTAGE.

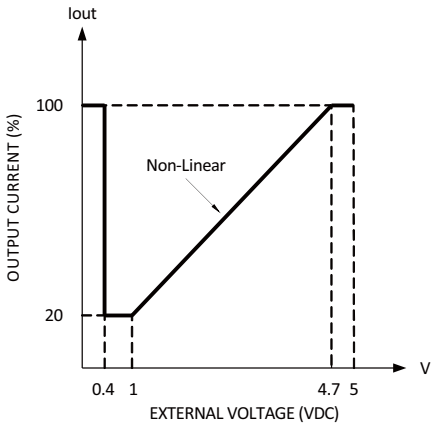




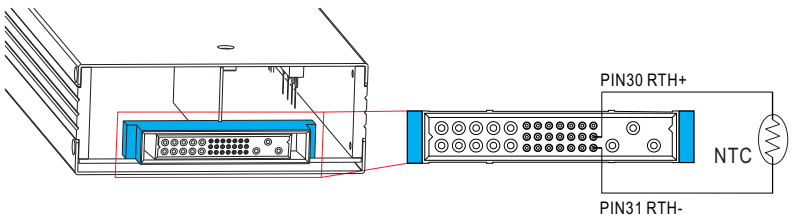
6. Output Current Programming (or, PC / remote current programming / dynamic current trim)

※ The output current can be trimmed to 20~100% of the rated current by applying EXTERNAL VOLTAGE.





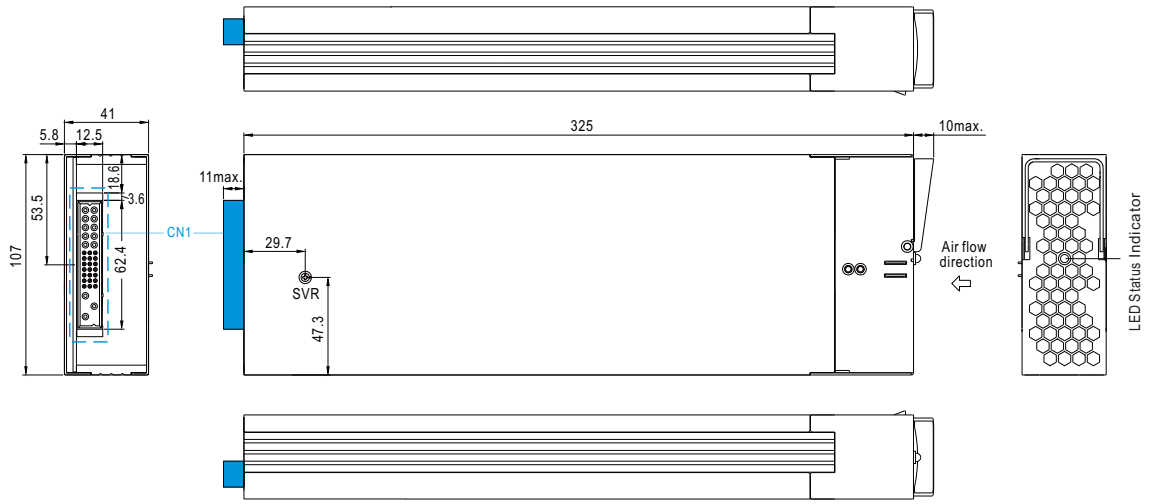
7.Temperature Compensation



◎ To exploit the temperature compensation function, please attach the temperature sensor, NTC, to the battery or the battery's vicinity.
◎ The charger is able to work normally without the NTC.

■ MECHANICAL SPECIFICATION

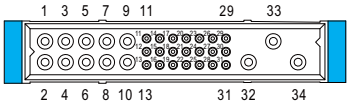
Case No.256 Unit:mm



※ LED Status Indicators

LED	Description
Green	Float (stage 3)
Orange	Charging (stage 1 or stage 2)
Red	The LED will present a constant red light when the abnormal status (OTP, OLP, fan fail and charging timeout) arises.
Red (Flashing)	The LED will flash with the red light when the internal temperature reaches 60℃; under this condition, the unit still operates normally without entering OTP. (In the meantime, an alarm signal will be sent out through the PMBus interface.)

※ Input / Output Connector Pin No. Assignment(CN1) : Positronic PCIM34W13M400A1



Mating Housing	Positronic PCIM34W13F400A1

Pin No.	Function	Description
1,2,3,4,6	-V	Negative output terminal.
5,7,8,9,10	+V	Positive output terminal.
11	+12V-AUX	Auxiliary voltage output, 10.8~13.2V, referenced to *GND-AUX (pin 12)*. The maximum load current is 0.8A. This output has the built-in "Oring diodes" and is not controlled by the *Remote ON/OFF* control.
12	GND-AUX	Auxiliary voltage output GND. The signal return is isolated from the output terminals (+V & -V).
13	+5V-AUX	Auxiliary voltage output, 4.5~5.5V, referenced to *GND-AUX (pin 12)*. The maximum load current is 0.3A. This output has the built-in "Oring diodes" and is not controlled by the *Remote ON/OFF* control.
14	SCL	Serial Clock used in the PMBus interface. (Note.2)
15	SDA	Serial Data used in the PMBus interface. (Note.2)
16	T-ALARM	High (4.5 ~ 5.5V) : When the internal temperature exceeds the limit of temperature alarm, or when fan fails. Low (-0.1 ~ 0.5V) : When the internal temperature is normal, and when fan works normally . The maximum sourcing current is 10mA and only for output(Note.2)
17	Remote ON-OFF	The unit can turn the output ON/OFF by electrical signal or dry contact between *Remote ON/OFF* and *+5V-AUX*. (Note.2) Short (4.5 ~ 5.5V) : Power ON ; Open (-0.1 ~ 0.5V) : Power OFF ; The maximum input voltage is 5.5V.
18	$\overline{\text{DC-OK}}$	High (4.5 ~ 5.5V) : When the Vout ≦16V/32V ±1V. Low (-0.1 ~ 0.5V) : When Vout ≧16V/32V ±1V. The maximum sourcing current is 10mA and only for output. (Note.2) *DC OK* is associated with battery low protection.
19	AC-OK	High (4.5 ~ 5.5V) : When the input voltage is ≧87Vrms . Low (-0.1 ~ 0.5V) : When the input voltage is ≦75Vrms. The maximum sourcing current is 10mA and only for output. (Note.2)
20	D0	Interface lines for charging curve selection. (Note.1)
21,22,23	A2,A1,A0	PMBus interface address lines. (Note.1)
24,25	DB,DA	Differential digital signal for parallel control. (Note.1)
26	PC	Connection for output current programming. (Note.1)
27	PV	Connection for output voltage programming. (Note.1)
28	+V(signal)	Positive output voltage signal. It cannot be connected directly to the load.
29	-V(signal)	Negative output voltage signal. It is for certain function reference; it cannot be connected directly to the load.
30	RTH+	Temperature sense associated with the temperature compensation function.
31	RTH-	
32	FG	AC Ground connection.
33	AC/L	AC Line connection.
34	AC/N	AC Neutral connection.

Note1: Non-isolated signal, referenced to [-V(signal)].
Note2: Isolated signal, referenced to GND-AUX.