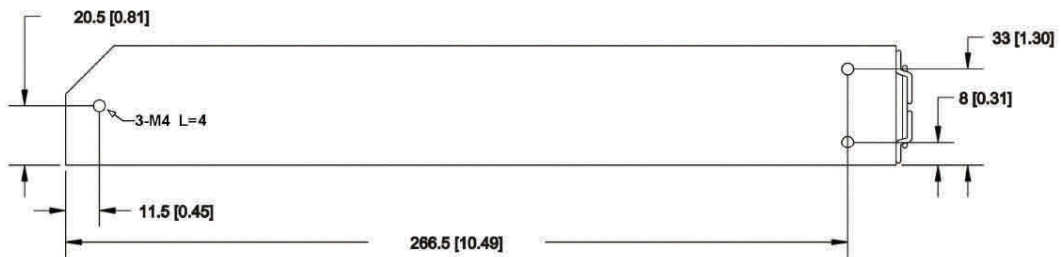
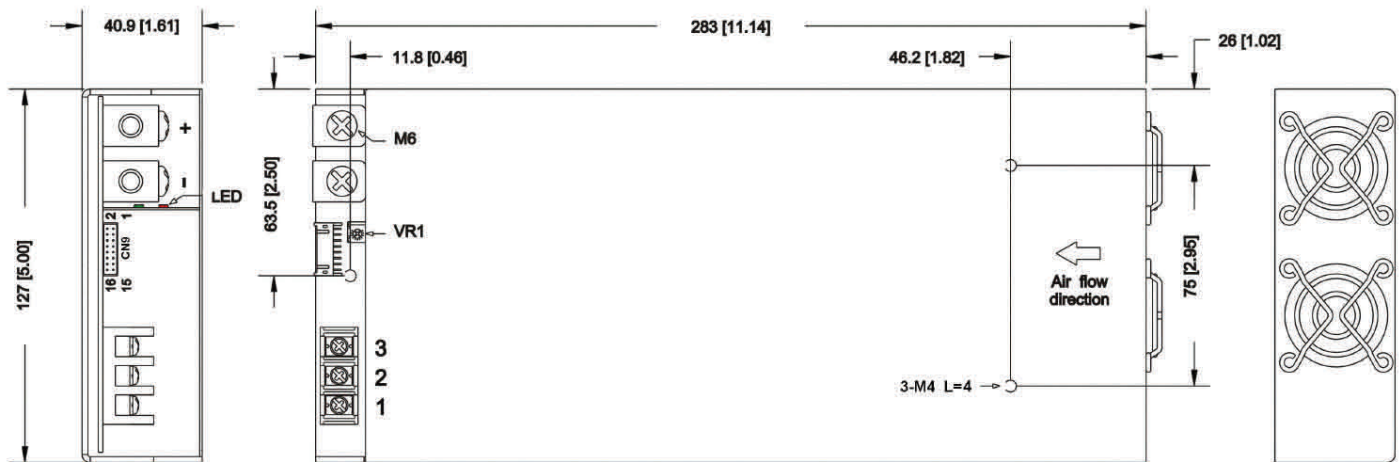


AK 1000

■ Mechanical Specification



AC Input Terminal
Pin No. Assignment

Pin No.	Assignment
1	ACL
2	ACN
3	⏏

Control pin number assignment (CN9) : JST S16B-PHDSS or equivalent

Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment	Mating Housing	Terminal
1	VS+	5	AUX	9	INH-	13	VCI	PHDR-16VS	SPHD-002T-P05
2	VO+	6	AUX	10	GND	14	GND		
3	VS-	7	INH+	11	POK	15	ACI		
4	VO-	8	GND	12	GND	16	PAR		

■ Function Description of CN9

Pin No	Function	Description
1	VS+	Remote voltage sense (+)
2	VO+	Local output voltage sense (+)
3	VS-	Remote voltage sense (-)
4	VO-	Local output voltage sense (-)
5,6	AUX	+ 5V / 0.5A Auxiliary power
7	INH+	Inhibit ON/OFF (+)
8,10,12,14	GND	Ground
9	INH-	Inhibit ON/OFF (-)
11	P-OK	Power OK
13	VCI	V Program
15	ACI	I Program
16	PAR	Parallel operation current share

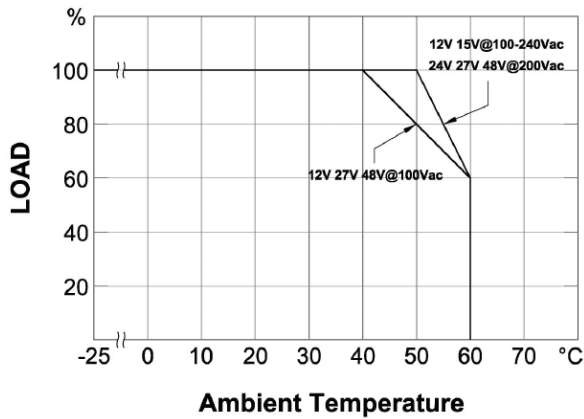
■ LED Status

Green LED	LED Signal	Status
Solid		Power OK
Slow Blink		Power Standby
Red LED	LED Signal	Status
Fast Blink		Over Voltage Protection (OVP)
Solid		Over Load Protection (OLP)
		Output Shorted Circuit Protection (SCP)
		Under Voltage Protection (UVP)
		Over Temperature Protection (OTP)
Slow Blink		Fan Failure
Intermittent Blink		Power Failure

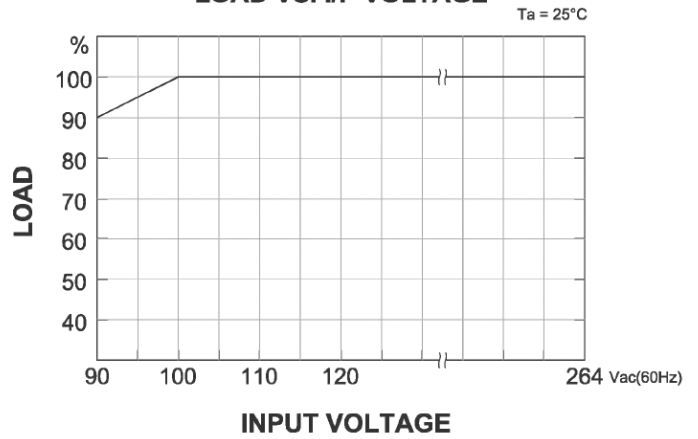
AK 1000

■ De-rating Curve

LOAD VS. TEMP.

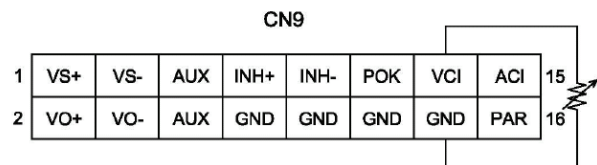
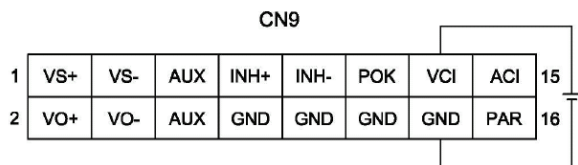
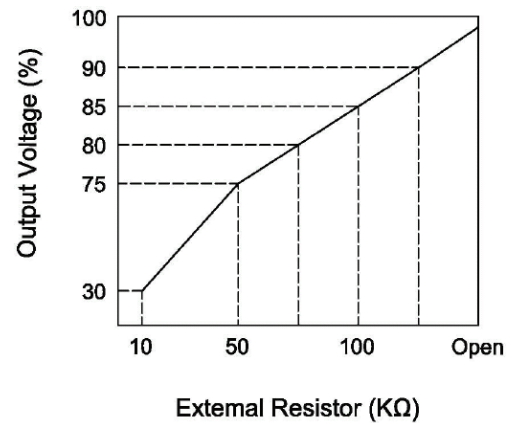
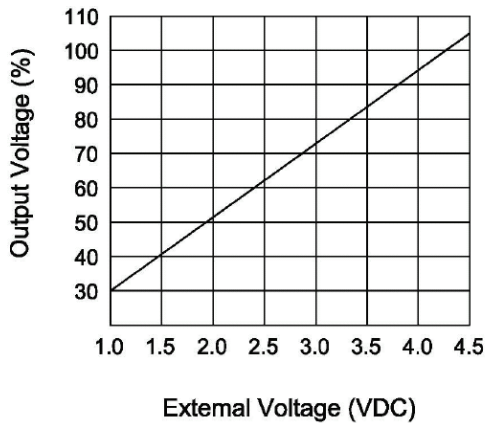


LOAD VS. I/P VOLTAGE

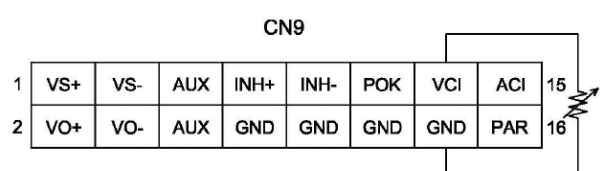
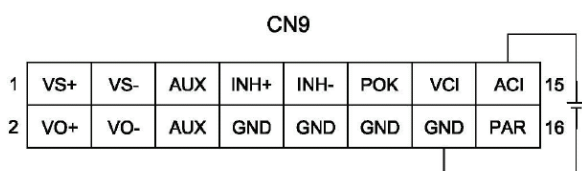
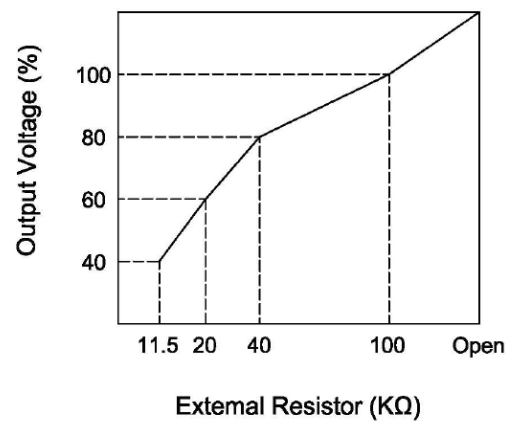
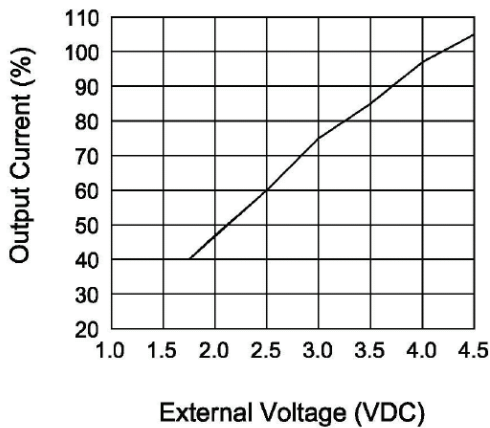


■ Function Manual

1. Output Voltage Trim

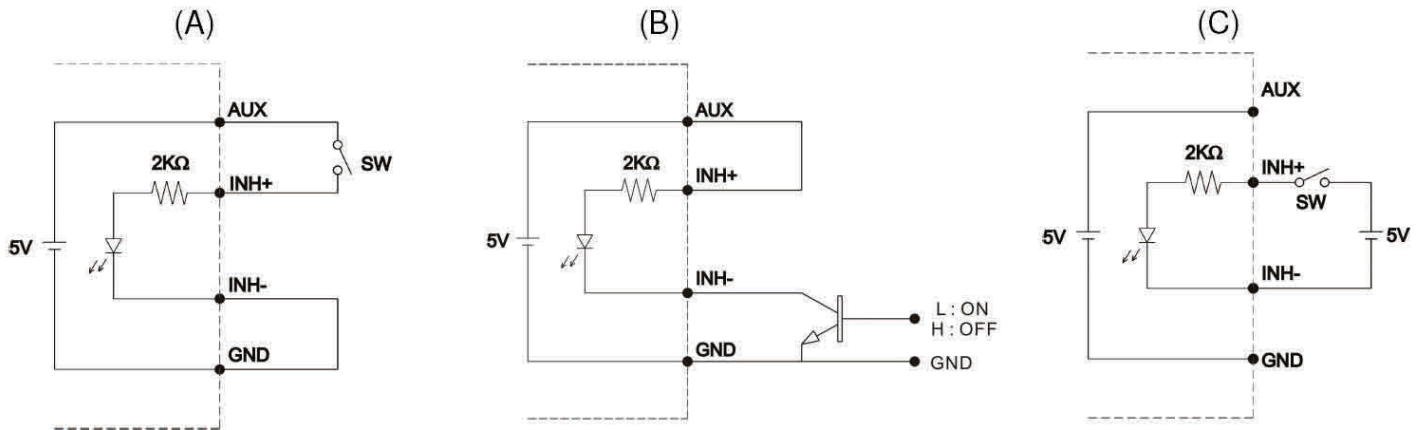


2. Output Current Trim



AK 1000

3. Remote ON/OFF

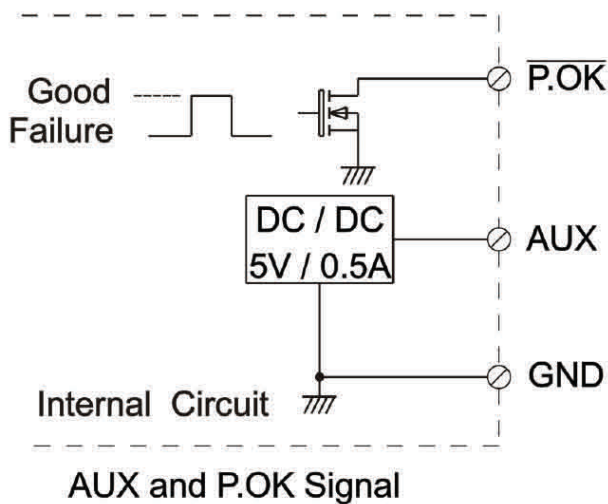


(A) : Using internal 5V auxiliary source

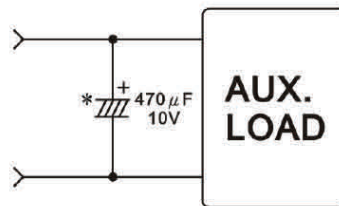
(B) : ON / OFF Control by NPN transistor

(C) : Using external voltage source

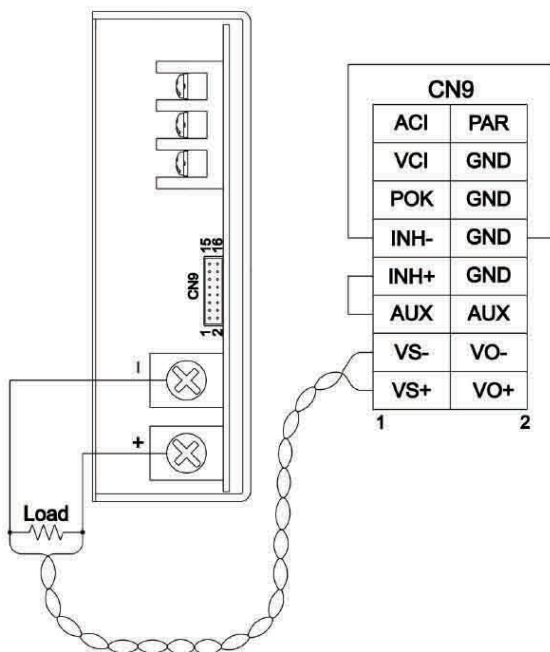
4. Power OK Signal



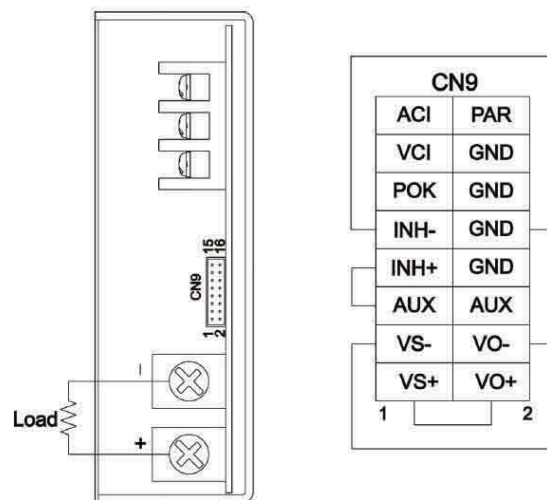
- * Place an additional capacitor to have a better performance of Aux power operation.
- * The grounding of "AUX" power should be connected to "GND" port. If "V-" is connected as Grounding, make sure to short the GND and V- ports.



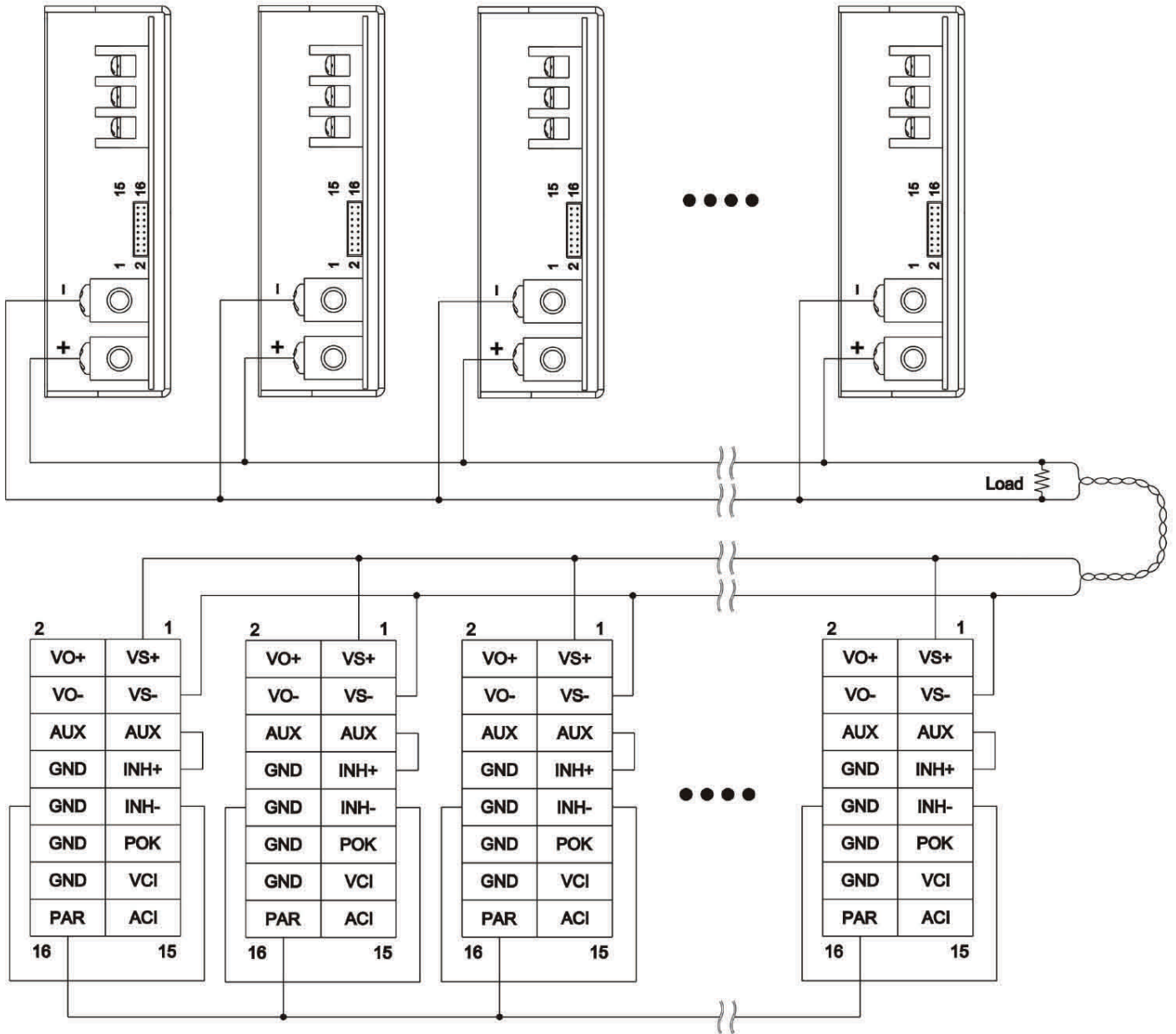
5. Remote Sense



6. Local Sense



7. Current Sharing with Remote Sensing



8. Current Sharing with Local Sensing

