

AOPS1000

1000 Watt AC/DC Power Supply



UL Pending

Universal Input
 Low Profile
 Inrush current protection
 Remote Sense and On/Off
 Over Current Protection
 UL, CE recognized
 2 year Warranty



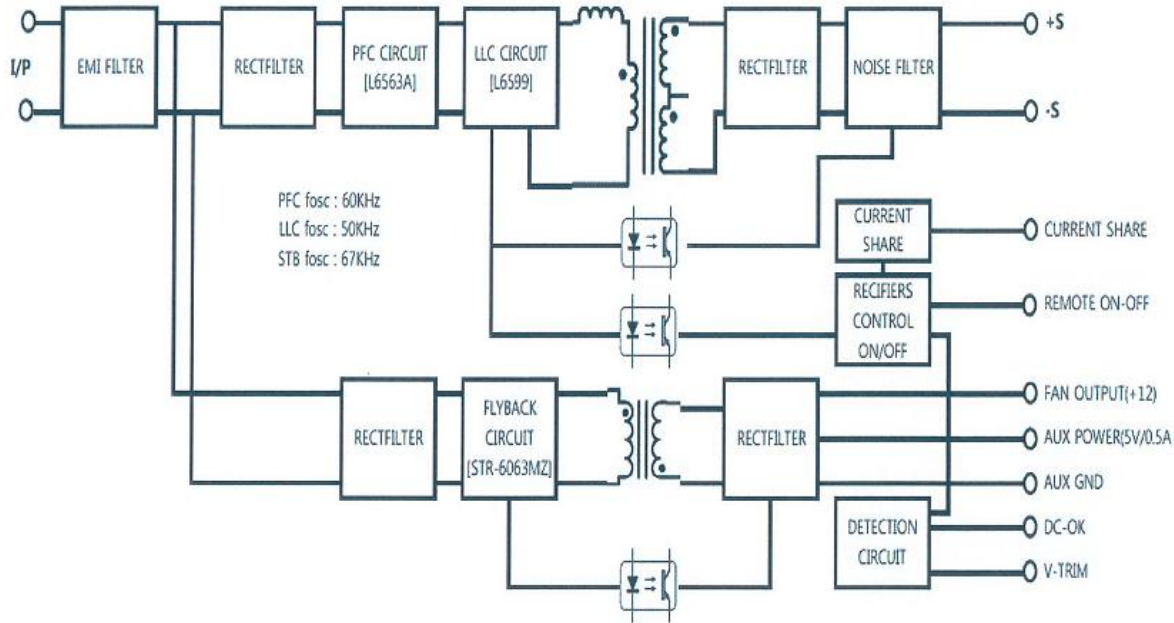
		UNIT				
INPUT	Voltage/Freq	V	AC 90~264V (47~63 Hz)			
	Current Typ. 110V	A	12			
	220V		6			
	Power Fac 110V	[n]	.98			
	220V		.95			
	Inrush Current	A	25A/115VAC, 40A/230VAC (Ta=25°C , Io=100% at cold Start)			
	Leakage	mA	< 2.0 mA / 240VAC			
		UNIT	AOPS1000-12	AOPS1000-15	AOPS1000-24	AOPS1000-48
OUTPUT	Nominal Voltage	VDC	12	15	24	48
	Adj Volt range		10-14	14-17	20-27	43-53
	Efficiency typ	%	83	85	88	90
	Current (max)	A	60	50	40	21
	Line Regulation	mV	120	150	240	60
	Load Regulation	mV	50	50	90	120
	Ripple	mVp-p	-	-	-	-
	Ripple Noise maximum	mVp-p	150	150	150	150
	Temperature Drift [0-+50C]	mV	-	-	-	-
	Rise Time	mS	300 ms. 50ms at full load			
	Hold up Time	mS	16 ms at 115VAC or 230 VAC at Full Load			
	OVP	V	13.8-16.8	16.8-19.8	27.6-32.4	56.6-66.2
	OCP	A	105-135% of rated output power			
	Remote ON OFF		Power ON: Active Low/Power OFF: Active High			
	Remote Sensing		Compensate voltage drop on load wiring up to 0.5V			
Power Good Signal		TTL signal out, PSU turn on =0-1V; PSU turn off= 3.3-5.6V				
Parallel/Series Operation		N/A				
Cooling OTP		Fan-blown cooling. Shut down O/P voltage automatically after temperature lowers				

Isolation	Input-Output	AC 3.0 KV 1 minute current 20mA, DC 500V 100MΩ (At room temperature & Humidity)
	Input-Case	AC 2.0 KV 1 minute current 20mA, DC 500V 100MΩ (At room temperature & Humidity)
	Output-Case	AC 0.5 KV 1 minute current 100mA, DC 500V 100MΩ (At room temperature & Humidity)
Environment	Operating temp/hum	-20 ~ +60°C, 20 ~ 90% RH(Non condensing)
	Storage temp/hum	-40 ~ +85°C, 20 ~ 90% RH(Non condensing)
	Vibration	10 ~ 500Hz at 2G, 10 minutes period/per 1 cycle, 60 minutes along X, Y and Z axis
	Impact	-

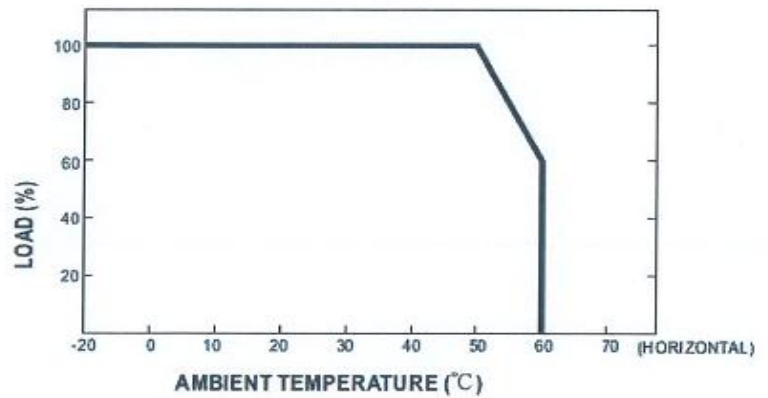
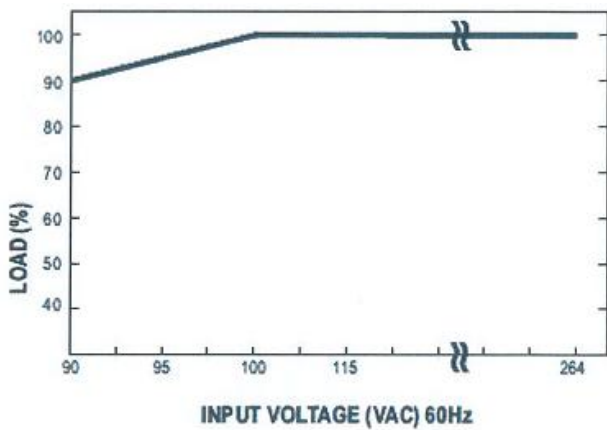


Safety	UL/CE	UL 60950-1, 2nd Ed+AM1+AM2	
	Line Emission	CONDUCTED EN55022 (CISPR22) / EN55011 (CISPR11) Class B RADIATED EN55022 (CISPR22) / EN55011 (CISPR11) Class A	
Size	MM/G	127W /295L /41H	3800

BLOCK DIAGRAM



OUTPUT DERATING CURVE

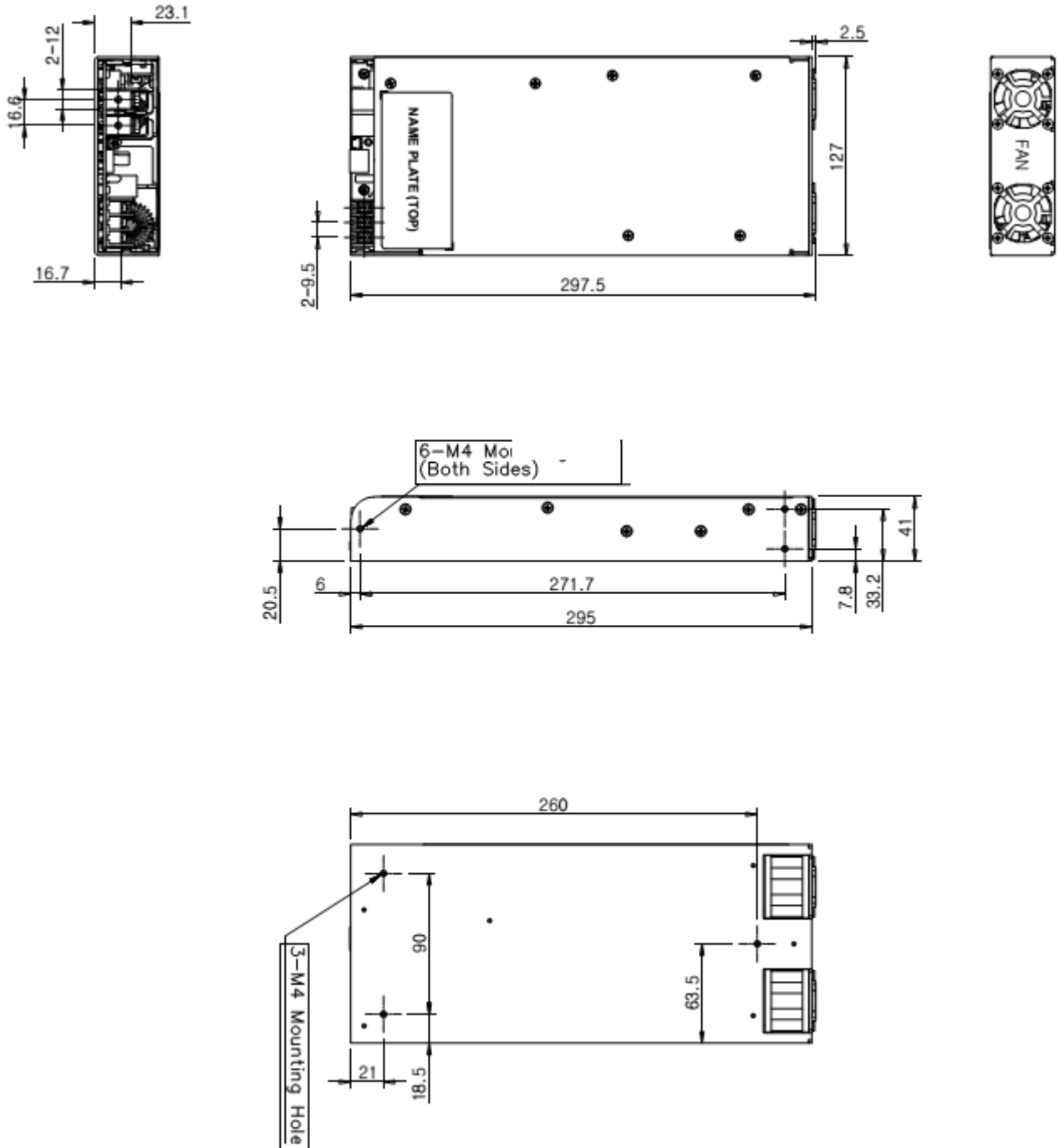


INPUT	AOPS1000-12	AOPS1000-15	AOPS1000-24	AOPS1000-48	Load
90 VAC	54 A	45 A	36 A	18.9 A	90%
100-264 VAC	60 A	50 A	40 A	21 A	100%



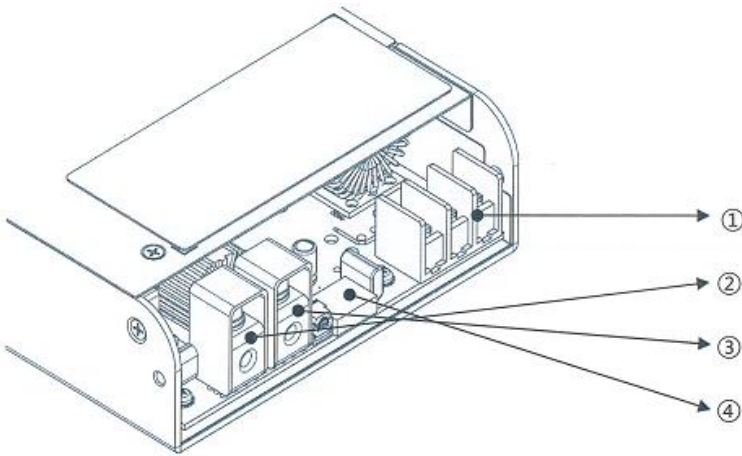


DIMENSIONAL DRAWING (mm)





TERMINATION/CONNECTION

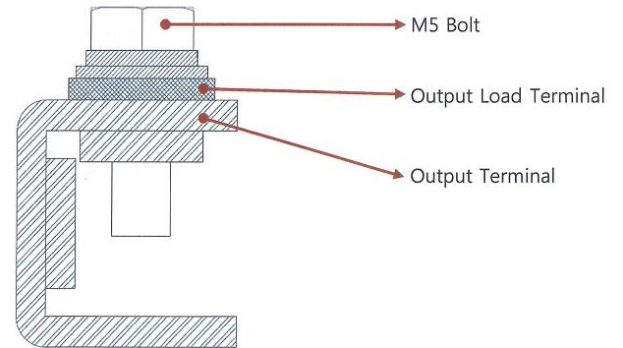


① AC INPUT TERMINAL

PIN No.	ASSIGNMENT	FUNCTION
1	FG	AC Input Frame/Chassis Ground
2	N	AC Input Neutral
3	L	AC Input Line (Fuse in Line)

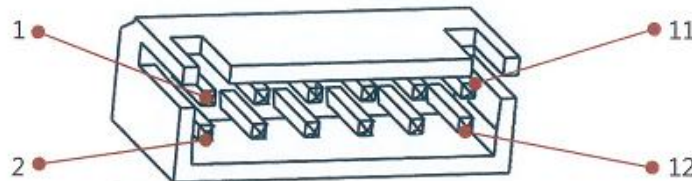
② +V Out M5 Lug

③ -V Out M5 Lug



④ CN 301 CONNECTOR

PIN No.	ASSIGNMENT	FUNCTION
1	+S	+Remote Sense
2	-S	-Remote Sense
3	AUXG	Auxiliary Output ground
4	AUX	Auxiliary Output (5V/0.5A)
5	DC-OK	Power OK Signal (ON 0~1V, OFF 3.3~5.6V)
6	Remote On-OFF	Remote ON/OFF
7	CS	Current Share
8	Vco	Current Share with remote Sense
9	Vci	Current Share with Remote Sense
10	Vca	Adjustment of Output Voltage
11	GND	Remote Ground
12	GND	Remote Ground



RECOMMENDED MOUNTING

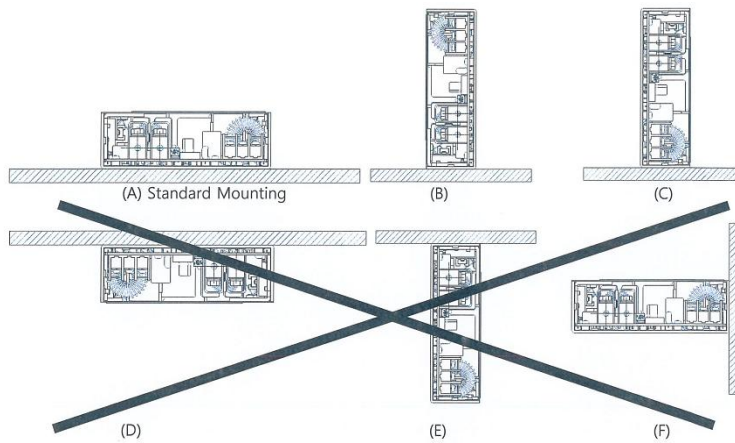


Fig.9 제품 실장 예

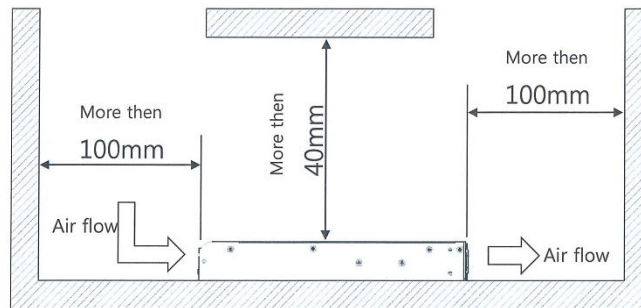
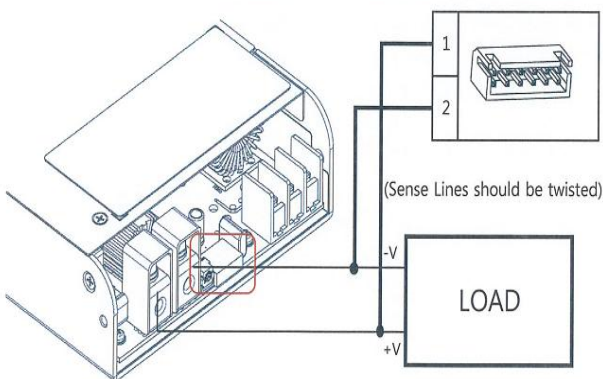


Fig.10 통풍 방향

REMOTE SENSE DIAGRAM



REMOTE ON/OFF CONTROL DIAGRAM

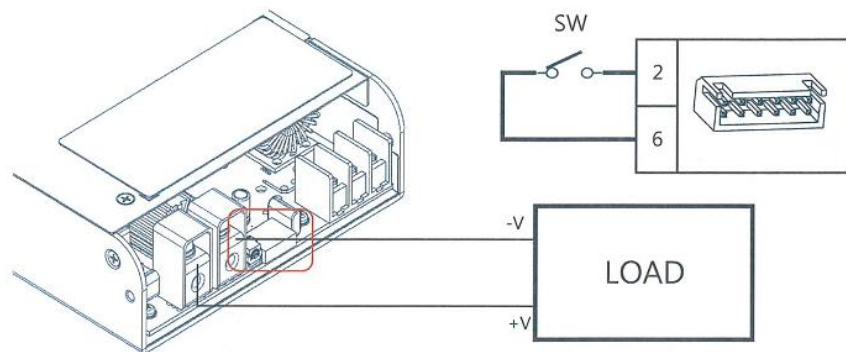


Fig.3 Remote ON-OFF Control Connection

Between Remote ON-OFF(pin6) and -S(pin2)	Power Supply Status
Switch Short	ON
Switch Open	OFF



POWER GOOD (DC-OK) SIGNAL

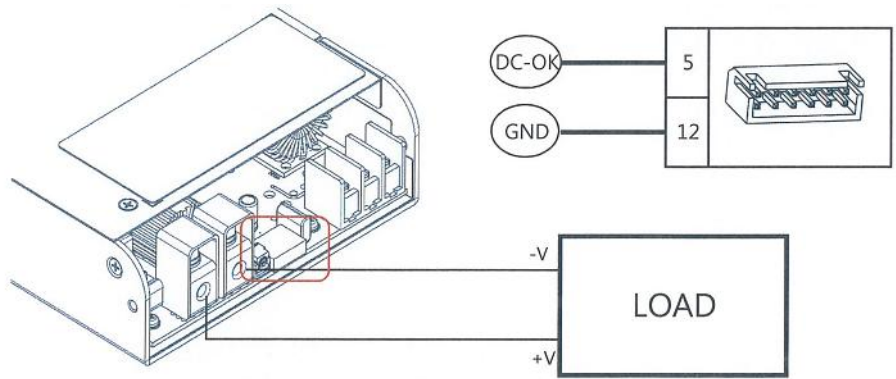
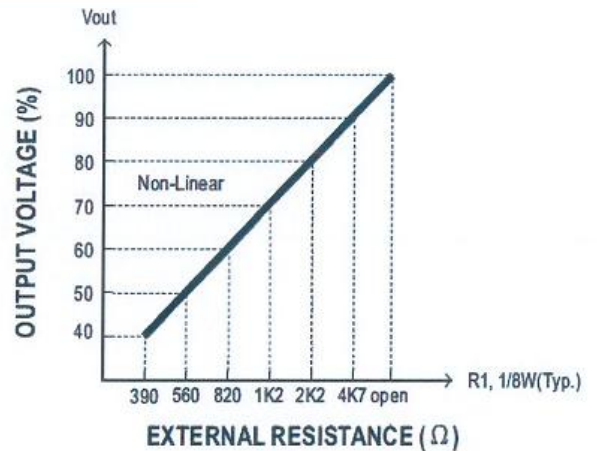
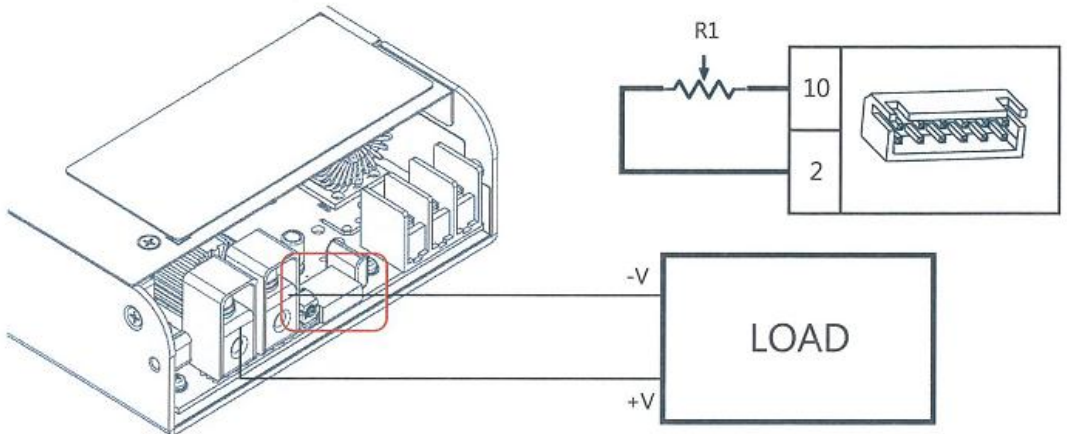


Fig.4 DC-OK TTL Voltage Singnal

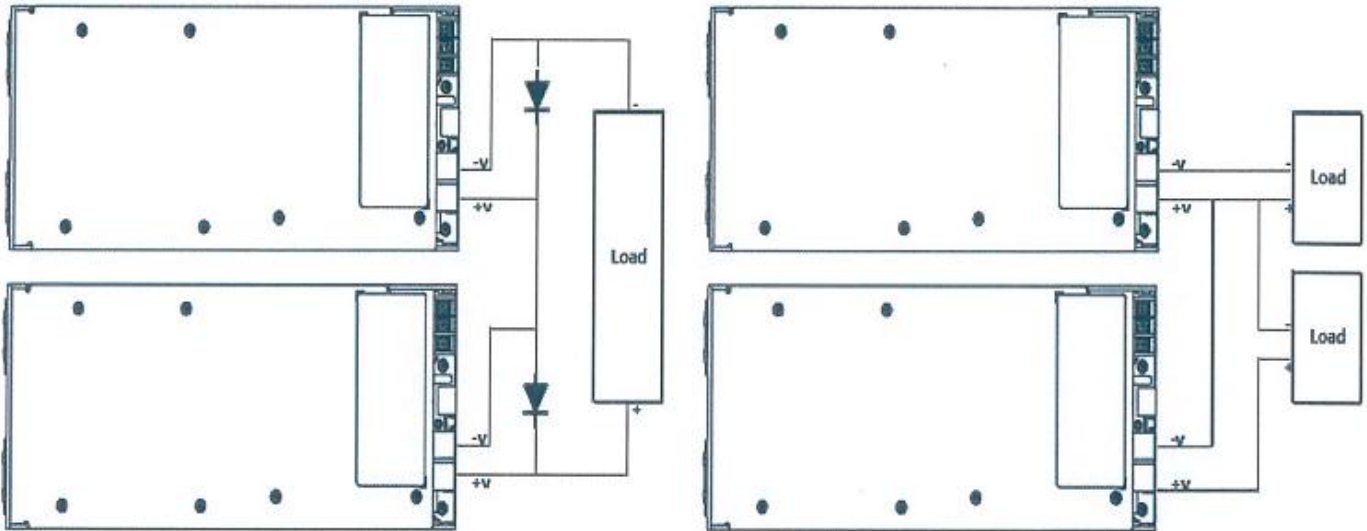
Between DC-OK(pin5) and GND(pin11,12)	Power Supply Status
0~1V	ON
3.3 ~ 5.6V	OFF

OUTPUT VOLTAGE ADJUSTMENT





SERIES OPERATION



PARALLEL OPERATION

