Datasheet for EPS FUV60KW Series

1. Specification of FUV60KW

Model	Lamp power（KW）	Input voltage（V）	Input Current（A）	Output voltage range（V）	Max output current（A）	Lamp voltage recommended（V）
220V/3KW	3	220	13.6	250-450	11	400
220V/4KW	4	220	18.2	300-450	12	400
220V/5KW	5	220	22.7	400-650	13	600
220V/6KW	6	220	27.2	400-650	15	600
380V/3KW	3.0	380	4.6	450~850	10	700
380V/4KW	4.0	380	6.1	450~850	10	700
380V/5KW	5.0	380	7.6	450~850	10	700
380S/5KW	5.0	380	7.6	850~1100	10	900
380V/5.6KW	5.6	380	8.5	850~1100	10	900
380V/6KW	6.0	380	9.1	500~850	12	700
380S/6KW	6.0	380	9.1	850~1100	10	900
380V/8KW	8.0	380	12.2	600~850	14	800
380V/8KWM	8.0	380	12.2	850~1100	11	1000
380V/8KWH	8.0	380	12.2	1100~1300	9.5	1200
380V/10KW	10	380	15.2	850~1300	15	1200
380S/10KW	10	380	15.2	1300~1750	12	1450
380V/12KW	12	380	18.2	1000~1300	15	1200
380V/12KWM	12	380	18.2	1300~1750	12	1500
380V/12KWH	12	380	18.2	1750~2200	10	2000
380V/15KW	15	380	22.8	1100~1300	15	1200
380V/15KWM	15	380	22.8	1500~1750	12	1700
380V/15KWH	15	380	22.8	1950~2200	10	2100
380V/17KW	17	380	25.8	1300~1750	15	1700

Model	Lamp power (KW)	Input voltage (V)	Input Current (A)	Output voltage range (V)	Max output current (A)	Lamp voltage recommended (V)
380V/17KW	17	380	25.8	1750~2200	12	2100
380V/20KW	20	380	30.4	1450~1750	15	1700
380S/20KW	20	380	30.4	1750~2200	12	2100
380V/22KW	22	380	33.4	1900~2200	12	2150
380V/22KWM	22	380	33.4	2200~2400	11	2300
380V/22KWH	22	380	33.4	2400~2600	10	2500
380V/25KW	25	380	38.0	1800~2200	16	2150
380S/25KW	25	380	38.0	2200~2600	13.5	2500
380V/28KW	28	380	42.5	2000~2200	16	2150
380V/28KWM	28	380	42.5	2200~2400	15	2300
380V/28KWH	28	380	42.5	2400~2600	13.5	2500
380V/28KWB	28	380	42.5	2600~2850	12.5	2750
380V/30KW	30	380	45.6	2000~2200	16	2150
380V/30KWL	30	380	45.6	2200~2400	15	2300
380V/30KWM	30	380	45.6	2400~2600	13.5	2500
380V/30KWH	30	380	45.6	2600~2850	12.5	2750
380V/30KWB	30	380	45.6	2850~3050	11.5	3000
380V/35KW	35	380	53.2	2400~2600	19	2500
380V/35KWM	35	380	53.2	2600~2850	18	2750
380V/35KWH	35	380	53.2	2850~3050	17	3000
380V/40KW	40	380	60.8	2400~2600	19	2500
380V/40KWM	40	380	60.8	2600~2850	18	2750
380V/40KWH	40	380	60.8	2850~3050	17	3000
380V/45KW	45	380	68.4	2850~3050	17	3000
380V/45KWM	45	380	68.4	3050~3300	16	3200
380V/45KWH	45	380	68.4	3300~3500	15	3400
380V/50KW	50	380	76	2900-3100	17	3050
380V/50KWM	50	380	76	3150-3350	16	3300
380V/50KWH	50	380	76	3350-3550	15	3500

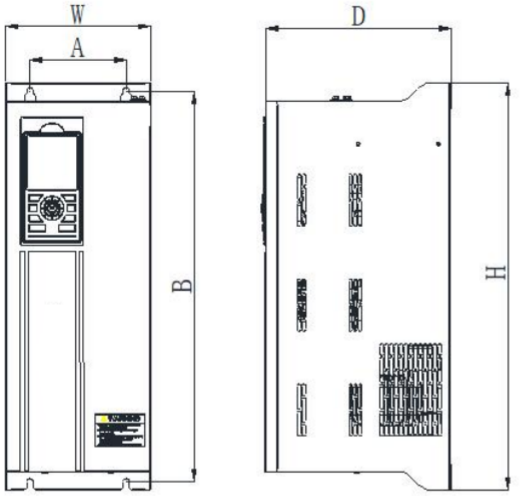
Note: If input voltage is 480V, output voltage will be increased 20%.

2. Basic Specification

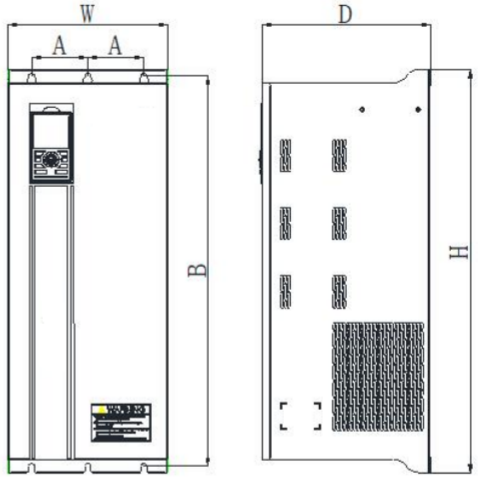
Input	**Nominal voltage, frequency**	380V 50/60Hz, 220V 50/60HZ
	Voltage range	-10%— +15%
	Digital input DI	Standard configuration 3 digital input DI1/DI2/DI3

	Analog input AI		Standard：0~10V voltage input(AI) or 0~20mA current input(AI)
Output	**Output voltage**		380V ：450V-3550V, 220V：220-650V
	Output frequency		8KHz-15KHz
	Digital output DO		Standard configuration 3 channel digital output DO1/DO2/DO3
	Analog output AO		2 channel 0~10V/0~20mA voltage output signal
	Relay contact output		Standard one set of AC 250V/2A normally open, normally closed contacts
Control method			Power vector control
Control characteristics	**Power setting resolution**		0.1KW
	Current limit		110% of the rated current of the lamp
	Voltage limit		110% of the rated voltage of the lamp
	RS485 communication		RS485 communication interface, which can control the operation and stop of the device, and reading of machine status
Typical function	**Standby function**		Can enter the standby power manually/automatically during downtime to save energy
	Lamp timer function		Can record lamp usage time
	Running function		External dry contact signal, RS485 communication signal control machine start and stop
Display	**LCD keyboard display**	**Monitor status**	Real-time monitoring of output power, output current, output voltage, module temperature, set power
		Alarm content	Latest 6 alarm codes, the last output power, output current, output voltage, DC bus voltage, module temperature and other values of the latest alarm.
Protection/Alarm function			Phase loss, input over voltage, input under voltage, output over current, output short circuit, device over-temperature, temperature detection, output disconnection, internal memory damage, etc.
Environment	**Ambient temperature**		-10°C to +45°C (without freezing)
	Ambient humidity		Below 90% (no frosting)
	Surrounding environment		Indoor (no direct sunlight, no corrosion, flammable gas, no oil mist, dust, etc.)
	Altitude		Below 1000m
Structure	**Protection class**		IP20
	Cooling method		Forced air cooling

3. Dimensions



3KW-22KW

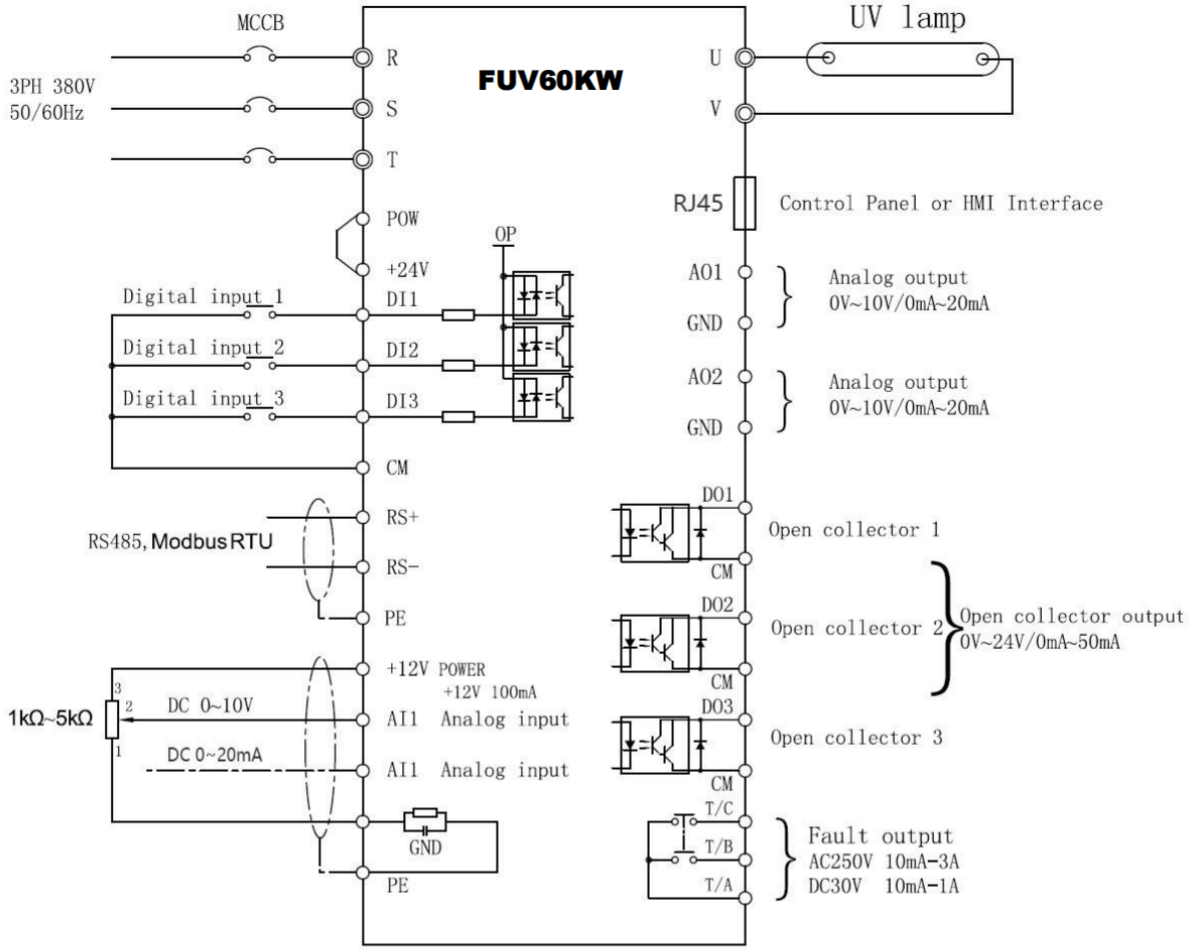


22KW-50KW

Power (KW)	Mounting hole (mm)		Dimension (mm)			Install aperture (mm)	Screw	Install method	N.W (KG)	G.W (KG)	Carton/ Poly wooden case size(mm)
	A	B	H	W	D						
2T0403	120	465	485	180	230	Φ8	M6	Wall mounted	11.5	12.4	590*315*340
3-6											
2T0404	120	520	540	195	245	Φ8	M6		15.3	16.8	640*315*355
8											
2T1305	120	575	600	210	255	Φ10	M8		20.8	22.7	710*315*355
2T1306											
10-15											
17-22	160	625	650	265	275	Φ10	M8		27.8	30	760*375*385
25-30	100	745	770	285	300	Φ10	M8		40.4	45.1	880*395*410
35-50	143	764	790	330	300	Φ10	M8		50	54	905*445*415

Note: all models > 22KW will be packed with poly wooden case to provide appropriate protection.

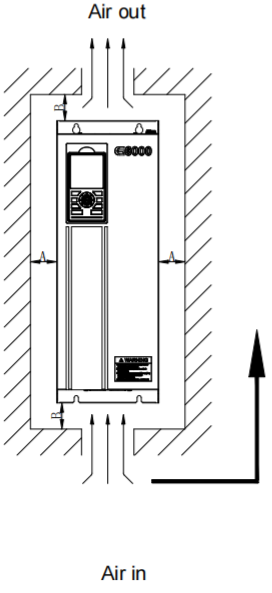
4. UV power supply control loop wiring diagram



Note: "◎ "Main circuit terminals, "○"Control circuit terminals

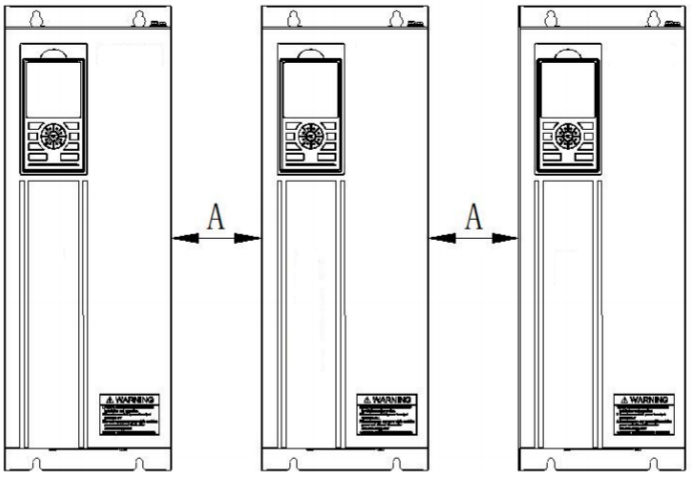
5. Installation requirements

- The installation space of UV electronic power supply requires as below:

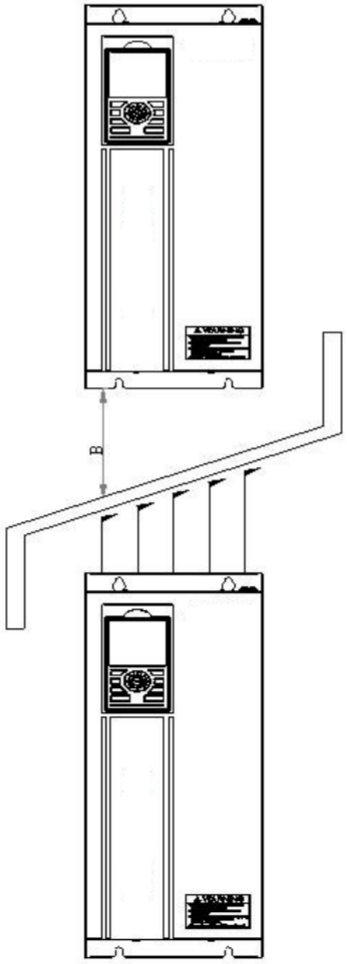


Power level	Size	
3.0KW～15KW	A≥20mm	B≥100mm
17KW～22KW	A≥20mm	B≥200mm
25KW～30KW	A≥50mm	B≥200mm
35KW-50KW	A≥100mm	B≥300mm

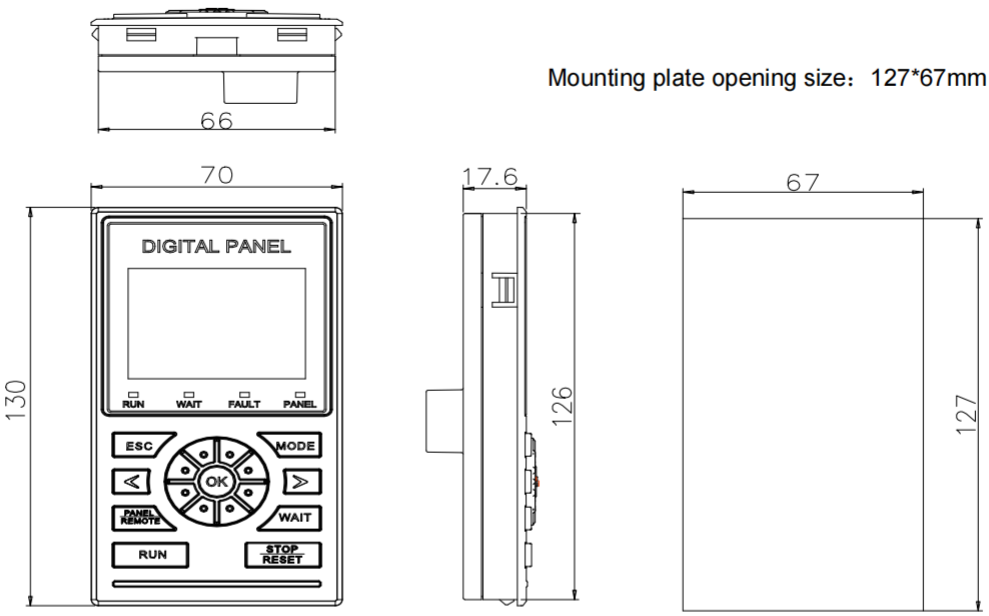
- The heat of EPS dissipates from the bottom part to the top. For more than 1 pcs EPS installation, Please have them installed side by side horizontally.



- Considering the heat dissipation performance, a mental plate is required to be installed as below If vertically installation is unavoidable:



6. Operation panel (optional)



Mounting plate opening size：127*67mm

External LCD keyboard Shuttle keyboard Dimensions (unit: mm)