

AC-DC Power Supplies Enclosed Type

Ordering information

FETA2500BA

FET A 2500 B A -











High voltage pulse noise type : NAP series Low leakage current type : NAM series * A higher current rating EMI/EMC filter may be recommended in view of the other devices that could be connected in parallel with the power supply.

- 1)Series name
- ②Single output
- 3 Output wattage 4 200/230V input
- §Version
- Output voltage
- (7)Optional
- F2: Reverse air exhaust
 R: with Remote ON/OFF
 Positive logic control

*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

MODEL	FETA2500BA-36	FETA2500BA-48
MAX OUTPUT WATTAGE[W] *1	1980	2496
DC OUTPUT	36V 55A	48V 52A

SPECIFICATIONS

	MODEL		FETA2500BA-36	FETA2500BA-48
	VOLTAGE[V]		AC170 - 264 1 φ (Output derating is required at AC170V - 180V. Refer to Derating)	
	CURRENTIA1 ACIN 200V		11.3typ	13.8typ
	FREQUENCY[Hz]		50 / 60 (47 - 63)	
			80typ (lo=10%)	83typ (lo=10%)
INIDILIT	EEEIOIENOVIO/1	ACIN 230V	87typ (lo=20%)	89typ (lo=20%)
INPUT	EFFICIENCY[%]		91typ (lo=50%)	92.5typ (lo=50%)
			90typ (lo=100%)	91.5typ (lo=100%)
	POWER FACTOR	ACIN 230V	0.98typ (lo=100%)	
	INRUSH CURRENT[A]	ACIN 200V *2	20max / 60max (Primary inrush current /Secondary inrush current) (More than 10 sec. to re-start)	
	LEAKAGE CURREN	T[mA]	0.85max (ACIN 240V 60Hz, Io=100%, According to IEC62368-1)	
	VOLTAGE[V]		36 48	
	CURRENTIA1 AC	ACIN 170V-180V	Output derating is required at ACIN 180V or less (refer to Derating)	
		ACIN 180V-264V	55	52
	LINE REGULATION[mV1	144max	192max
	LOAD REGULATION		360max	480max
	RIPPLE[mVp-p]	0 to +50°C *3	300max	360max
		-10 to 0°C *3	360max	480max
	RIPPLE NOISE[mVp-p]	0 to +50°C *3	360max	480max
OUTPUT		-10 to 0°C *3	480max	600max
	TEMPEDATURE DECILI ATION(mV)	0 to +50°C	360max	480max
		-10 to +50°C	440max	600max
	DRIFT[mV]	*4	144max	192max
	START-UP TIME[s]		1.7max (ACIN 200V, Io=100%)	
	HOLD-UP TIME[ms]		10typ (lo=100%)	
		ACIN 200V	20typ (Io=50%)	
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V] *5		28.80 - 39.60	38.40 - 52.80 *6
	OUTPUT VOLTAGE SETTING[V]		36.00 - 37.44	48.00 - 49.92
	OVERCURRENT PROTECTION		Activate over 105% - 120% of rated current and recovers automatically.	
			(Output voltage shuts down when the output voltage continuously drops due to overcurrent protection.) *7	
PROTECTION CIRCUIT AND OTHERS	OVERVOLTAGE PROTECTION[V] *7		42.00 - 45.00 56.00 - 60.00	
	DC OK LAMP		LED (Green)	
	ALARM LAMP		LED (Amber)	
	REMOTE ON/OFF		Provided	
ISOLATION			AC3,000V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At room temperature)	
	INPUT-FG		AC2,000V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At room temperature)	
	OUTPUT·AUX·RC·WRN·PG-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At room temperature)	
	OUTPUT-AUX·RC·WRN·PG		AC100V 1minute, Cutoff current = 100mA, DC100V 50M Ω min (At room temperature)	
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE		-10 to +70℃ (Output derating is required), 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max	
	STORAGE TEMP., HUMID. AND ALTITUDE		-20 to +85°C, 20 - 90%RH (Non condensing), 9,000m (30,000 feet) max	
			10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis	
			196.1m/s² (20G), 11ms, once each along X, Y and Z axis	
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS		UL62368-1, C-ÚL (CSA62368-1), EN62368-1	
	CONDUCTED NOISE		Complies with FCC Part 15-A, CISPR32-A, EN55032-A, VCCI-A	
			Complies with IEC61000-3-2 Class A *8	
OTHERS	CASE SIZE/WEIGHT	*9	102×41×340mm [4.02×1.61×13.39 inches] (W×H×D) / 2.3kg max	
			Forced cooling (internal fan)	
	CCSLING METHOD		r orood ocoming (internal lan)	

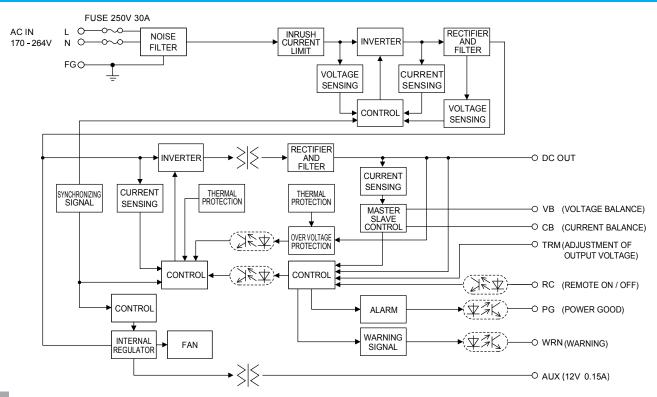
- AUX output power is not included
- The current of input surge to a built-in noise filter (0.2ms or less) is excluded.
- Measured by 500MHz oscilloscope. Ripple and ripple noise is measured on measuring board with capacitor of 22 µF within 150mm from the output terminal.
- Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C,
- with the input voltage held constant at the rated input/output.

 Can't be used above the rated output current and the rated output power.
- When the output voltage is adjusted to higher than 49.92V and the load factor is over 70% of the rated current, if the load current changes quickly (< 200msec), the output voltage drops approximately 5V below the setting voltage.
- Output voltage recovers from protection by shutting down the input voltage and waiting more than 10 seconds then turning on AC input again, or turning off the output voltage by remote control.
- Please contact us about another class.
- Case size contains neither the terminal blocks, connector and screw. To meet the specifications, do not operate over-loaded condition.
- A sound may occur from power supply at peak loading.

FETA2500BA



Block diagram



External view

