Ordering information

FETA2500B

2500

FETA





High voltage pulse noise type : NAP series Low leakage current type : NAM series

- ①Series name ②External form T:Terminal block interface
- (3)Single output
- Output wattage
- (5)200/230V input Output voltage

MODEL	FETA2500B-36	FETA2500B-48
MAX OUTPUT WATTAGE[W] *1	1980	2496
DC OUTPUT	36V 55A	48V 52A

SPECIFICATIONS

	MODEL		FETA2500B-36	FETA2500B-48	
	VOLTAGE[V]		AC170 - 264 1 φ (Output derating is required at AC170V - 180V. Refer to instruction manual 4.2)		
INPUT	CURRENT[A] ACIN 200V		11.3typ		
	FREQUENCY[Hz]		50 / 60 (47 - 63)		
	EFFICIENCY[%] ACIN 23		80typ (Io=10%)	83typ (Io=10%)	
		A CINI ODOV	87typ (lo=20%)	89typ (Io=20%)	
		ACIN 230V	91typ (lo=50%)	92.5typ (Io=50%)	
			90typ (Io=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	Γ[mA]	0.85max (ACIN 240V 60Hz, Io=100%, According to IEC60950-1)		
	VOLTAGE[V]		36 48		
		ACIN 170V-180V	Output derating is required at ACIN 180V or less (refer to instruction manual 4.2)		
		ACIN 180V-264V	55	52	
	LINE REGULATION[mV]	144max	192max	
	LOAD REGULATION	[mV]	360max	480max	
	RIPPLE[mVp-p] RIPPLE NOISE[mVp-p]	0 to +50°C *3	300max	360max	
		-10 to 0°C *3	360max	480max	
		0 to +50°C *3	360max	480max	
OUTPUT		-10 to 0°C *3	480max	600max	
	TEMPERATURE REGULATION[mV]	0 to +50℃	360max	480max	
		-10 to +50℃	440max	600max	
	DRIFT[mV]	*4	144max	192max	
			1.7max (ACIN 200V, Io=100%)		
	HOLD-UP TIME[ms] ACIN 200V	4 OIN 0001/	10typ (lo=100%)		
		ACIN 200V	20typ (lo=50%)		
	OUTPUT VOLTAGE ADJUSTM	ENT RANGEIV1 *5	32.40 - 39.60	43.20 - 52.80 *6	
	OUTPUT VOLTAGE SET		36.00 - 37.44	48.00 - 49.92	
	OVERCURRENT PROTECTION		Activate over 105% - 120% of rated current and recovers automatically. (Shut down if low-voltage protection activated)		
	OVERVOLTAGE PROTEC	CTION[V] *7	42.00 - 45.00	56.00 - 60.00	
PROTECTION	LOW-VOLTAGE PROTEC	TION[V] *7	21.60 - 25.20	28.80 - 33.60	
CIRCUIT AND OTHERS			LED (Green)		
	ALARM LAMP		LED (Amber)		
			Provided		
ISOLATION	INPUT-OUTPUT-AUX-	JTPUT·AUX·RC·WRN·PG AC3,000V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At room temperature)		0MΩ min (At room temperature)	
			AC2,000V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At room temperature)		
			AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At room temperature)		
			AC100V 1minute, Cutoff current = 100mA, DC100V 50M Ω min (At room temperature)		
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-10 to +70°C (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		
	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis		
	IMPACT		196.1m/s ² (20G), 11ms, once each along X, Y and Z axis		
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS		UL60950-1, C-UL (CSA60950-1), EN60950-1		
	CONDUCTED NOISE		Complies with FCC Part15-A, CISPR22-A, EN55011-A, EN55022-A, VCCI-A		
			Complies with IEC61000-3-2 Class A *8		
	CASE SIZE/WEIGHT		102×41×340mm [4.02×1.61×13.39 inches] (W×H×D) / 2.3kg max		
			Forced cooling (internal fan)	, 5	
	COOLING WILLIAM		roiced cooling (internal an)		

- 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.
- *****3 Ripple and ripple noise is measured on measuring board with capacitor of 22 µF within
- 150mm from the output terminal.

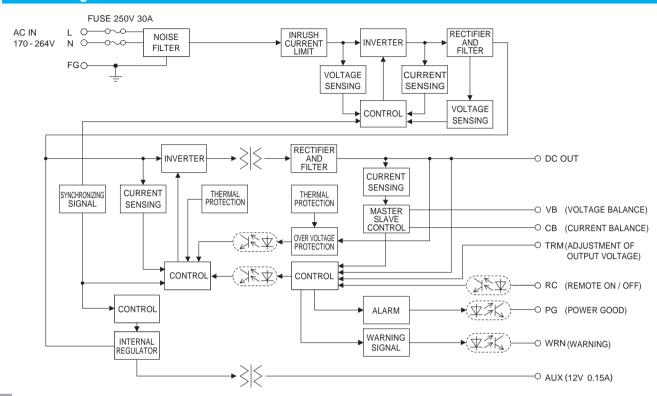
 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.
- Can not be used above the rated output current and the rated output power.

 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.
- To recover output voltage, recycle input voltage after 10 or more seconds.
- Please contact us about another class.

 Case size contains neither the terminal blocks, connector and screw nor.
- When input voltage recycling is needed for output recovery, AC power shall be removed and cycled after 10 seconds to reset the protection circuit.

 Please contact us when it's necessary to restart the power supply in less than 10 seconds.
- To meet the specifications. Do not operate over-loaded condition.
- A sound may occur from power supply at peak loading.

Block diagram



External view

