













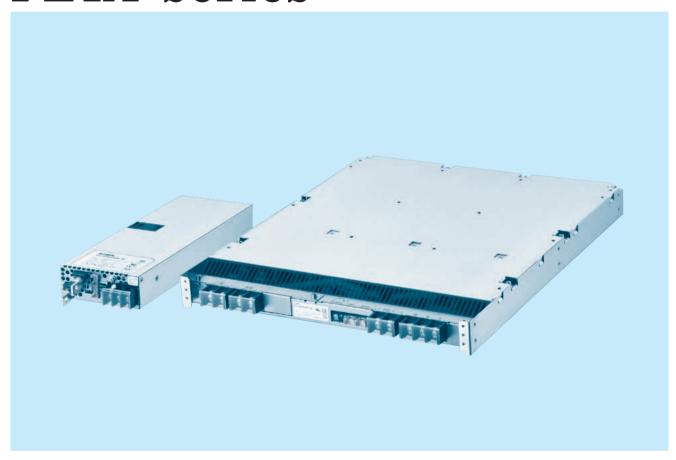








FETA-series



Feature

High power density

Low profile (Meets 1U height.)

High output voltage

(FETA3000BC-250, FETA7000T-144, FETA7000ST-144)

High efficiency

High-speed response (FETA3000BC)

Harmonic attenuator

(FETA2500BA, 3000BA, 3000BC, 7000ST: Complies with

IEC61000-3-2 Class A

FETA7000T: Complies with IEC61000-3-12)

Complies with SEMI F47

Parallel Operation / Parallel Redundancy Operation Alarm signals, Remote ON / OFF and other functions

Safety agency approvals

UL62368-1, C-UL(CSA62368-1), EN62368-1

EMI

Complies with FCC Part 15-A, CISPR32-A, EN55032-A, VCCI-A

(FETA7000ST: Complies with FCC Part 15-A, CISPR32-A,

EN55032-A, VCCI-A by connecting an external EMI/EMC filter)

3-year warranty (Refer to Instruction Manual)

CE marking

Low voltage Directive **RoHS** Directive

UKCA marking

Electrical Equipment Safety Regulations RoHS Regulations

EMS Compliance : EN61204-3, EN61000-6-2

EN61000-4-2

EN61000-4-3

EN61000-4-4

EN61000-4-5

EN61000-4-6

EN61000-4-8

EN61000-4-11

eco

FETA2500BA

A 2500 B A -





Example recommended EMI/EMC filter NAC-20-472



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.

- Series name
 Single output
 Output wattage
- 4)200/230V input
- § Version
- Output voltage
- ①Optional 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.

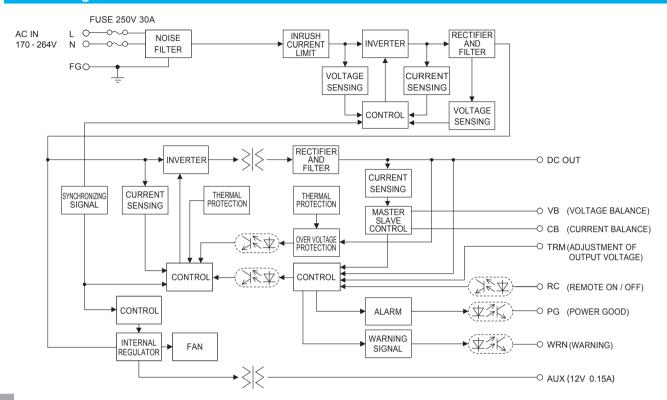
MODEL	FETA2500BA-36	FETA2500BA-48
MAX OUTPUT WATTAGE[W] *1	1980	2496
DC OUTPUT	36V 55A	48V 52A

	MODEL		FETA2500BA-36	FETA2500BA-48	
	VOLTAGE[V]		AC170 - 264 1 \(\Phi \) (Output derating is required at AC170		
	CURRENT[A]	ACIN 200V	11.3typ	13.8typ	
	FREQUENCY[Hz]		50 / 60 (47 - 63)	71	
			80typ (Io=10%)	83typ (lo=10%)	
			87typ (lo=20%)	89typ (lo=20%)	
INPUT	EFFICIENCY[%]	ACIN 230V	91typ (lo=50%)	92.5typ (Io=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 in	rush current) (More than 10 sec. to re-start)	
	LEAKAGE CURRENT	Γ[mA]	0.85max (ACIN 240V 60Hz, lo=100%, According to IEC62368-1)		
	VOLTAGE[V]		36	48	
		ACIN 170V-180V	Output derating is required at ACIN 180V or less (refer	to "Derating")	
	CURRENT[A]	ACIN 180V-264V	55	52	
	LINE REGULATION[1	mV]	144max	192max	
	LOAD REGULATION		360max	480max	
		0 to +50°C *3	300max	360max	
	RIPPLE[mVp-p]	-10 to 0°C *3	360max	480max	
		0 to +50°C *3	360max	480max	
OUTPUT	RIPPLE NOISE[mVp-p]	-10 to 0°C *3	480max	600max	
		0 to +50°C	360max	480max	
	TEMPERATURE REGULATION[mV]	-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] ACIN 200V OUTPUT VOLTAGE ADJUSTMENT RANGE[V] *5		10typ (lo=100%)		
			20typ (lo=50%)		
			28.80 - 39.60	38.40 - 52.80 *6	
	OUTPUT VOLTAGE SETTING[V]		36.00 - 37.44	48.00 - 49.92	
			Activate over 105% - 120% of rated current and recover	ers automatically.	
	OVERCURRENT PROT	ECTION	(Output voltage shuts down when the output voltage continuously drops due to overcurrent protection.) *7		
PROTECTION	OVERVOLTAGE PROTEC	CTION[V] *7	42.00 - 45.00	56.00 - 60.00	
CIRCUIT AND	DC OK LAMP		LED (Green)		
OTHERS	ALARM LAMP		LED (Amber)		
	REMOTE ON/OFF		Provided		
	INPUT-OUTPUT-AUX-I	RC·WRN·PG	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)		
ISOLATION	OUTPUT-AUX-RC-WRI	N·PG-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At room temperature)		
	OUTPUT-AUX·RC·WR	N·PG	AC100V 1minute, Cutoff current = 100mA, DC100V 50M Ω min (At room temperature)		
	OPERATING TEMP., HUMID.	AND ALTITUDE	-10 to +70°C (Refer to "Derating"), 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max		
ENIVED ON MENT	STORAGE TEMP., HUMID.	AND ALTITUDE	-20 to +85°C, 20 - 90%RH (Non condensing), 9,000m (30,000 feet) max		
ENVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes		
	IMPACT		196.1m/s² (20G), 11ms, once each along X, Y and Z a		
OAFFTV AND	AGENCY APPROVAL	.s	UL62368-1, C-UL (CSA62368-1), EN62368-1		
SAFETY AND	CONDUCTED NOISE		Complies with FCC Part 15-A, CISPR32-A, EN55032-	A, VCCI-A	
NOISE REGULATIONS	HARMONIC ATTENU		Complies with IEC61000-3-2 Class A *8		
	CASE SIZE/WEIGHT		102×41×340mm [4.02×1.61×13.39 inches] (W×H	X D) / 2.3kg max	
OTHERS	COOLING METHOD		Forced cooling (internal fan)		
	COOLING WILLIAOD		1 orded cooming (internal lan)		

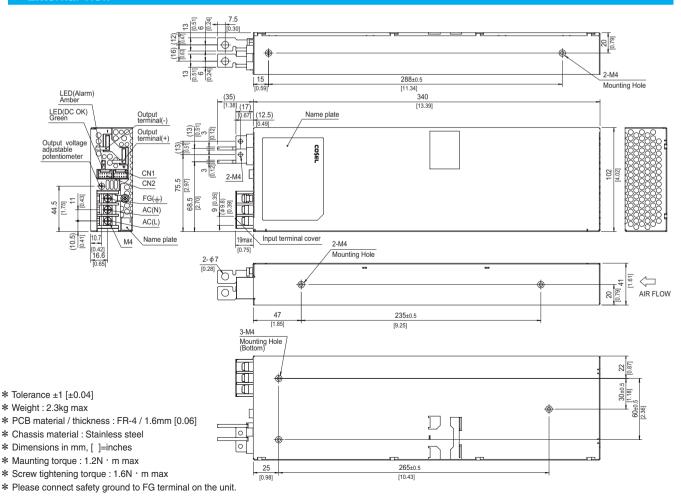
- AUX output power is not included.
- The current of input surge to a built-in noise filter (0.2ms or less) is excluded. Measured by 500MHz oscilloscope.
- *****3
 - Ripple and ripple noise is measured on measuring board with capacitor of 22µF within 150mm from the output terminal.
- Drift is the change 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.





External view



eco

FETA3000BA

A 3000 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.

- Series name
 Single output
 Output wattage
- 4)200/230V input
- § Version
- Output voltage
- ①Optional 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.

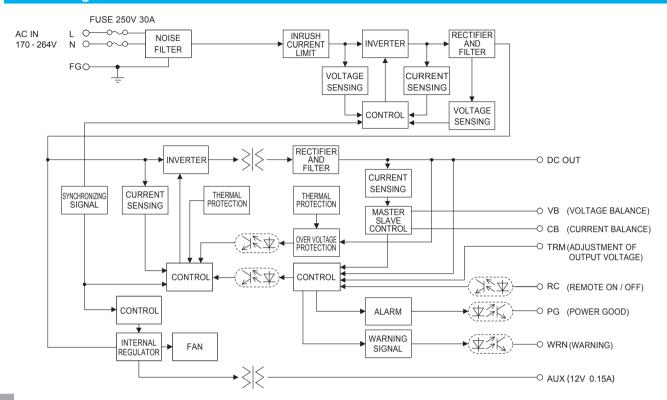
MODEL	FETA3000BA-48
MAX OUTPUT WATTAGE[W] *1	2976
DC OUTPUT	48V 62A

	MODEL		FETA3000BA-48	
	VOLTAGE[V]		AC170 - 264 1 φ (Output derating is required at AC170V - 180V. Refer to "Derating")	
	CURRENT[A]	ACIN 200V	16.6typ	
ŀ	FREQUENCY[Hz]	710111 2001	50 / 60 (47 - 63)	
	TTIEGOENOT[TIZ]		82typ (lo=10%)	
			90typ (10=20%)	
INPUT	EFFICIENCY[%]	ACIN 230V	93typ (10=50%)	
			91.5typ (Io=100%)	
	POWER FACTOR	ACIN 230V	0.98typ (lo=100%)	
	INRUSH CURRENT[A]	ACIN 200V *2	20max / 80max (Primary inrush current /Secondary inrush current) (More than 10 sec. to re-start)	
			0.85max (ACIN 240V 60Hz, Io=100%, According to IEC62368-1)	
	LEAKAGE CURRENT[mA] VOLTAGE[V]		48	
	VOLIAGE[V]	ACIN 170V-180V	1.0	
	CURRENT[A]	ACIN 170V-180V ACIN 180V-264V	Output derating is required at ACIN 180V or less (refer to "Derating") 62	
	LINE REGULATION[I		192max	
			480max	
	LOAD REGULATION		480max	
	RIPPLE[mVp-p]			
		-10 to 0°C *3	480max (Vo=15 - 52.8[V]) *4	
CUITDUIT	RIPPLE NOISE[mVp-p]	0 to +50°C *3	600max (Vo=15 - 52.8[V]) *4	
OUTPUT		-10 to 0°C *3	720max (Vo=15 - 52.8[V]) *4	
	TEMPERATURE REGULATION(mV)	0 to +50°C	480max	
		-10 to +50°C	600max	
	DRIFT[mV] *4		192max	
	START-UP TIME[s] *		1.7max (ACIN 200V, lo=100%)	
	HOLD-UP TIME[ms]	ACIN 200V	10typ (lo=100%)	
			20typ (lo=50%)	
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V] *6		38.40 - 52.80	
OUTPUT VOLTAGE SETTING[V]		ING[V]	48.00 - 49.00	
	OVERCURRENT PROT	ECTION	Activate over 105% - 120% of rated current and recovers automatically.	
PROTECTION			(Output voltage shuts down when the output voltage continuously drops due to overcurrent protection.) *7	
CIRCUIT AND	OVERVOLTAGE PROTEC	CTION[V] *7	56.00 - 60.00	
OTHERS	DC_OK LAMP		LED (Green)	
	ALARM LAMP		LED (Amber)	
	REMOTE ON/OFF		Provided	
	INPUT-OUTPUT·AUX·	RC·WRN·PG	AC3,000V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At room temperature)	
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At room temperature)	
	OUTPUT-AUX-RC-WRI		AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At room temperature)	
	OUTPUT-AUX·RC·WR		AC100V 1minute, Cutoff current = 100mA, DC100V 50M Ω min (At room temperature)	
	OPERATING TEMP., HUMID.		-10 to +70°C (Refer to "Derating"), 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max	
ENVIRONMENT	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/s² (20G), 11ms, once each along X, Y and Z axis	
SAFETY AND	AGENCY APPROVAL		UL62368-1, C-UL (CSA62368-1), EN62368-1	
NOISE REGULATIONS	CONDUCTED NOISE		Complies with FCC Part 15-A, CISPR32-A, EN55032-A, VCCI-A	
	HARMONIC ATTENU		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	
Eo	COOLING METHOD		Forced cooling (internal fan)	

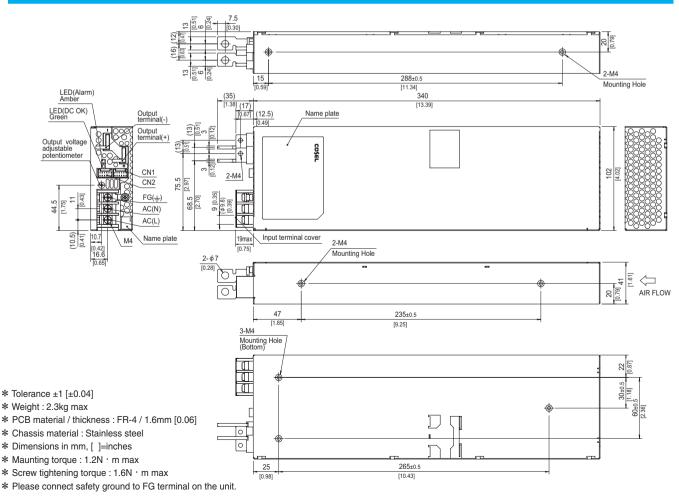
- AUX output power is not included.
- The current of input surge to a built-in noise filter (0.2ms or less) is excluded. Measured by 500MHz oscilloscope.
- *****3
 - Ripple and ripple noise is measured on measuring board with capacitor of 22µF within
- 150mm from the output terminal.

 The output voltage should not be adjusted to 15V or less because the ripple and ripple noise would be out of specs and the unit would make the audible noise.
- 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. 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.





External view



eco

FETA3000BC

A 3000 B C -[









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.

- Series name
 Single output
 Output wattage
- 4)200/230V input
- § Version
- Output voltage
- ①Optional 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	FETA3000BC-250
MAX OUTPUT WATTAGE[W]	3000
DC OUTPUT	250V 12A

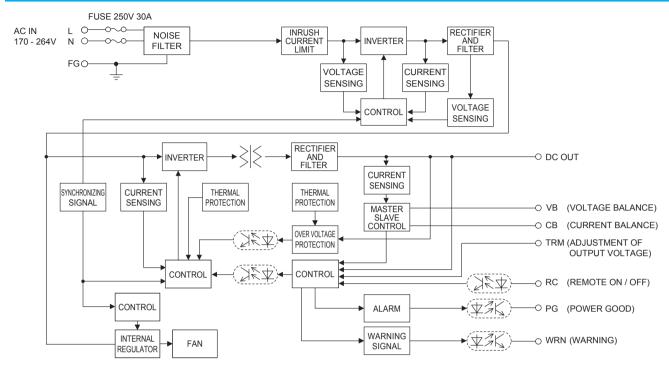
	MODEL		FETA3000BC-250	
	VOLTAGE[V]		AC170 - 264 1 φ (Output derating is required at AC170V - 180V. Refer to "Derating")	
	CURRENT[A]	ACIN 200V	16.8typ	
INPUT	FREQUENCY[Hz]		50 / 60 (47 - 63)	
			93typ (lo=50%)	
	EFFICIENCY[%]	ACIN 230V	91.5typ (lo=100%)	
	POWER FACTOR	ACIN 230V	0.98typ (Io=100%)	
	INRUSH CURRENT[A]	ACIN 200V *1	20max / 80max (Primary inrush current /Secondary inrush current) (More than 10 sec. to re-start)	
	LEAKAGE CURREN	T[mA]	0.85max (ACIN 240V 60Hz, lo=100%, According to IEC62368-1)	
	VOLTAGE[V]		250	
	OUDDENITIAL	ACIN 170V-180V	Output derating is required at ACIN 180V or less (refer to "Derating")	
	CURRENT[A]	ACIN 180V-264V	12	
	LINE REGULATION	V1	1.0max	
	LOAD REGULATION	ſΫΊ	2.5max	
	DIDDLEDA 1	0 to +40°C *2	12max	
	RIPPLE[Vp-p]	-10 to 0°C *2	13.2max	
	DIDDLE MOIOERA	0 to +40°C *2	12max	
OUTPUT	RIPPLE NOISE[Vp-p]	-10 to 0°C *2	13.2max	
	TEMPERATURE REQUIRATIONING	0 to +40°C	2.5max	
	TEMPERATURE REGULATION[V]	-10 to 40℃	3.2max	
	DRIFT[V]	*3	1.0max	
	START-UP TIME[s]		1.0max (ACIN 200V, Io=100%)	
		10111 0001/	10typ (Io=100%)	
	HOLD-UP TIME[ms]	ACIN 200V	20typ (lo=50%)	
	OUTPUT VOLTAGE ADJUSTM	ENT RANGE[V] *4	180 - 350	
	OUTPUT VOLTAGE SETTING[V]		250 - 253	
	OVERCURRENT PROTECTION		Activate over 105% - 120% of rated current and recovers automatically.	
PROTECTION	OVERVOLTAGE PROTECTION(V) *5		(Output voltage shuts down when the output voltage continuously drops due to overcurrent protection.) *5	
PROTECTION			400 - 450 (Active over 160%-180% of rated voltage.) *6	
CIRCUIT AND OTHERS	DC OK LAMP		LED (Green)	
OTHERS	ALARM LAMP		LED (Amber)	
	REMOTE ON/OFF		Provided	
	INPUT-OUTPUT · RC	·WRN·PG	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)	
ISOLATION	OUTPUT-FG		AC2,000V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At room temperature)	
	RC · WRN · PG-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At room temperature)	
	OUTPUT-RC · WRN ·	PG	AC3,000V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At room temperature)	
	OPERATING TEMP., HUMID.	AND ALTITUDE	-10 to +70℃ (Refer to "Derating"), 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max	
ENVIRONMENT	STORAGE TEMP., HUMID.	AND ALTITUDE	-20 to +85°C, 20 - 90%RH (Non condensing), 9,000m (30,000 feet) max	
LIA A IU O IAINI EIA I	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis	
	IMPACT		196.1m/s² (20G), 11ms, once each along X, Y and Z axis	
SAFETY AND	AGENCY APPROVAL		UL62368-1, C-UL (CSA62368-1), EN62368-1	
NOISE REGULATIONS	CONDUCTED NOISE		Complies with FCC Part 15-A, CISPR32-A, EN55032-A, VCCI-A	
HOIDE HEADENHONS	HARMONIC ATTENU		Complies with IEC61000-3-2 Class A *7	
OTHERS	CASE SIZE/WEIGHT	*8	102×41×340mm [4.02×1.61×13.39 inches] (W×H×D) / 2.3kg max	
OTHERS	COOLING METHOD	<u> </u>	Forced cooling (internal fan)	

- 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 2.2 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.

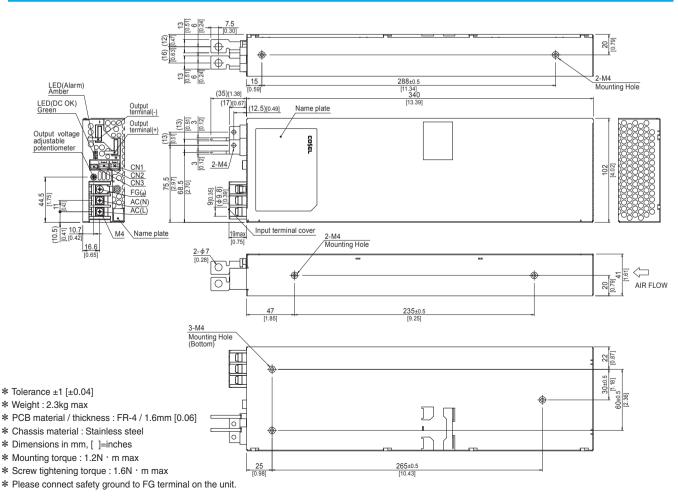
 Can't be used above the rated output current and the rated output power.

 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.
- Since the voltage adjustment range is wide, the operating voltage of the overvoltage protection is set high.
- 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





External view



FETA7000T

FET A 7000 T -



*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.

①Series name ②Single output ③Output wattage

(3) Output wattage (4) Triple input phase (5) Output voltage

*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.

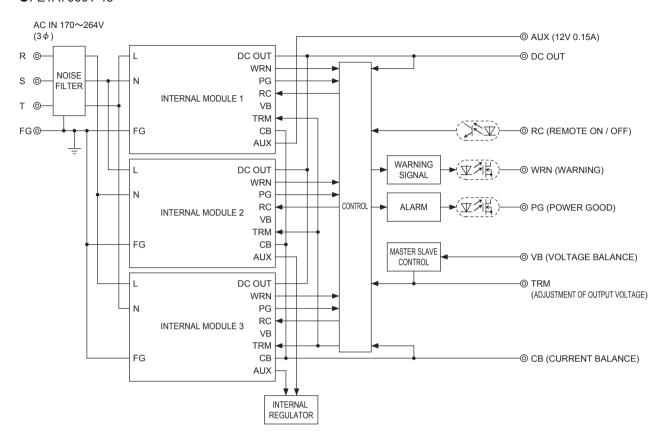
MODEL	FETA7000T-48	FETA7000T-144
MAX OUTPUT WATTAGE[W] *1	7113	7488
DC OUTPUT	48V 148.2A	144V 52A

VOLTAGE[V]		MODEL		FETA7000T-48	FETA7000T-144
				AC170 - 264 3 \(\phi \) (Output derating is required at AC170V - 180V. Refer to "Derating")	
FFFICIENCY	INPUT	CURRENT[A]	ACIN 200V	22.7typ	23.9typ
POWER FACTOR NRUSH CURRENT[MA] ACM 230W 10 800 % 30 max / 60 max (Primary inrush current / Secondary inrush current) (More than 10 sec. to re-start)		FREQUENCY[Hz]		50 / 60 (47 - 63)	
NRIUSH CURRENT[A] ACM 200V 20 30max / 50max / Frimary inrush current / Secondary inrush current) (More than 10 sec. to re-start)		EFFICIENCY[%]	ACIN 230V	90.5% (lo=100%)	90.5% (Io=100%)
CLEAKAGE CURRENT[mA] 3.0max (ACIN 240V 60Hz, Io=100%, According to IEC62368-1) 48		POWER FACTOR	ACIN 230V	0.98typ (Io=100%)	
VOLTAGE[V]		INRUSH CURRENT[A]	ACIN 200V *2		
CURRENT(A) ACM 178V-189V 148.2 52				3.0max (ACIN 240V 60Hz, Io=100%, According to IEC	62368-1)
CURRENT A A A A A A A		VOLTAGE[V]			
LINE REGULATION mV 950max 360max 1800max 180		CHDDENTIAL	ACIN 170V-180V		
COLIFOR RIPPLE[mVp-p]		CONNENT[A]	ACIN 180V-264V		52
RIPPLE [mVp-p]		LINE REGULATION[I	mV]	192max	360max
OUTPUT RIPPLE NOISE[mVp-p]		LOAD REGULATION	[mV]	960max	1800max
OUTPUT RIPPLE NOISE[mVp-p] RIPPLE NOISE[mVp-p] TEMPERATURE REGULATION[mV] TEMPERATURE REGULATION[mV] DRIFT[mV] START-UP TIME[s] HOLD-UP TIME[ms] ACIN 200V OUTPUT VOLTAGE ADJUSTMENT RANGE[V] ** OUTPUT VOLTAGE SETTING(V) OVERCURRENT PROTECTION OVERCURRENT PROTECTION OVERVOLTAGE PROTECTION(V) THENS ALARM LAMP REMOTE ON/OFF OUTPUT-AUX-RC-WRN-PG ACS_000V 1 minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) INPUT-AUX-RC-WRN-PG OUTPUT-AUX-RC-WRN-PG ACS_000V 1 minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX-RC-WRN-PG OUTPUT-AUX-RC-WRN-PG ACS_000V 1 minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX-RC-WRN-PG OUTPUT-AUX-RC-WRN-PG ACS_000V 1 minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX-RC-WRN-PG OUTPUT-AUX-RC-WRN-PG ACS_000V 1 minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX-RC-WRN-PG ACS_000V 1 minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX-RC-WRN-PG ACS_000V 1 minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX-RC-WRN-PG ACS_00V 1 minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX-RC-WRN-PG ACS_00V 1 minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX-RC-WRN-PG ACS_00V 1 minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX-RC-WRN-PG ACS_00V 1 minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX-RC-WRN-PG ACS_00V 1 minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX-RC-WRN-PG ACS_00V 1 minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX-RC-WRN-PG ACS_00V 1 minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX-RC-WRN-PG		DIDDI E[m\/n n]			720max
OUTPUT HIPPLE NOISE[mVP-P] -10 to 0 °C		MIPPLE[IIIVP-P]			960max
Temperature record 10 to +40°C 600max 2200max 2200max 2800max		DIDDI E NOISE[m\/n_n]		480max	960max
DRIFT[mV]	OUTPUT	HIFFEE NOISE[IIIVP-P]	-10 to 0°C *3	600max	1200max
DRIFT[mV]		TEMPERATURE REGULATION(mV)			2200max
START-UPTIME[s]					2800max
HOLD-UP TIME[ms] ACIN 200V 10typ (10=100%) 20typ (10=50%) 20typ			*4		384max
NOLID-OP TIME[MS] ALN 20V 20typ (to=50%) 20typ (START-UP TIME[s]		1.7max (ACIN 200V, Io=100%)	
OUTPUT VOLTAGE ADJUSTMENT RANGE[V] *2 8.8 - 52.8 *6		HOLD-UP TIME[ms]	ACIN 200V		
OUTPUT VOLTAGE SETTING[V] 47 - 49		OUTPUT VOLTAGE ADJUSTM	 FNT RANGF(V) *5		86.4 - 158.4 *7
OVERCURRENT PROTECTION Works over 105% of rating (Recovers automatically, Hiccup overcurrent) (Output voltage shuts down when the output voltage continuously drops due to overcurrent protection.) *8					
OVERCURRENT PROTECTION Output voltage shuts down when the output voltage continuously drops due to overcurrent protection.) *8				11 19	
OVERVOLTAGE PROTECTION[V] *8 56 - 60 168 - 180					
DC_OK LAMP		OVERVOLTAGE PROTEC	CTIONIVI *8		
ALARM LAMP LED (Amber) REMOTE ON/OFF Provided INPUT-OUTPUT·AUX·RC·WRN·PG AC3,000V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) INPUT-FG AC2,000V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX·RC·WRN·PG-FG AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX·RC·WRN·PG AC100V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX·RC·WRN·PG AC100V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX·RC·WRN·PG AC100V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX·RC·WRN·PG AC100V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX·RC·WRN·PG AC100V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX·RC·WRN·PG-FG AC2,000V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX·RC·WRN·PG-FG AC2,000V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX·RC·WRN·PG-FG AC3,000V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX·RC·WRN·PG-FG AC2,000V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX·RC·WRN·PG-FG AC2,000V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX·RC·WRN·PG AC2,000V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX·RC·WRN·PG AC2,000V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX·RC·WRN·PG AC2,000V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX·RC·WRN·PG AC2,000V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX·RC·WRN·PG AC2,000V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX·RC·WRN·PG AC2,000V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OUTPUT-AUX·RC·WRN·PG AC2,000V 1minute, Cutoff current = 100				LED (Green)	
REMOTE ON/OFF Provided	OTHERS				
INPUT-OUTPUT·AUX·RC·WRN·PG AC3,000V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature)					
OUTPUT-AUX·RC·WRN·PG-FG OUTPUT-AUX·RC·WRN·PG-FG OUTPUT-AUX·RC·WRN·PG OUTPUT-AUX·RC·WRN·PG OUTPUT-AUX·RC·WRN·PG AC100V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature) OPERATING TEMP, HUMID.AND ALTITUDE STORAGE TEMP, HUMID.AND ALTITUDE OPERATING TEMP, HUMID.AND ALTITUDE STORAGE TEMP, HUMID.AND ALTITUDE OPERATING TEMP, HUMID.AND ALTITUDE OPERA		INPUT-OUTPUT-AUX-	RC·WRN·PG		
OUTPUT-AUX-RC-WRN-PG	ICOL ATION	INPUT-FG			
OPERATING TEMP, HUMID.AND ALTITUDE -10 to +60°C (Refer to "Derating"), 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max	ISOLATION	OUTPUT-AUX-RC-WRI	N·PG-FG		
ENVIRONMENT STORAGE TEMP, HUMID.AND ALTITUDE -20 to +75°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/s² (20G), 11ms, once each along X, Y and Z axis SAFETY AND NOSE REGULATIONS AGENCY APPROVALS UL62368-1, C-UL (CSA62368-1), EN62368-1 CONDUCTED NOISE Complies with FCC Part15-A, CISPR32-A, EN55032-A, VCCI-A HARMONIC ATTENUATOR Complies with IEC61000-3-12 CASE SIZE/WEIGHT *9 388 × 43 × 475mm [15.28 × 1.69 × 18.70 inches] (W × H × D) / 11kg max		OUTPUT-AUX·RC·WR	N·PG		
VIBRATION		OPERATING TEMP., HUMID.	AND ALTITUDE		
VIBRATION 10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis	ENVIDONMENT	STORAGE TEMP., HUMID.	AND ALTITUDE		
AGENCY APPROVALS UL62368-1, C-UL (CSA62368-1), EN62368-1	ENVIRONWENT	VIBRATION			
CONDUCTED NOISE Complies with FCC Part15-A, CISPR32-A, EN55032-A, VCCI-A NOISE REGULATIONS HARMONIC ATTENUATOR Complies with IEC61000-3-12 CASE SIZE/WEIGHT \$388 × 43 × 475mm [15.28 × 1.69 × 18.70 inches] (W × H × D) / 11kg max					xis
CONDUCTED NOISE Complies with FCC Part15-A, CISPR32-A, ENS5032-A, VCCI-A HARMONIC ATTENUATOR Complies with IEC61000-3-12 CASE SIZE/WEIGHT *9 388×43×475mm [15.28×1.69×18.70 inches] (W×H×D) / 11kg max	CAEETY AND				
HARMONIC ATTENUATOR					A, VCCI-A
OTHERS	MOISE REGULATIONS				
COOLING METHOD Forced cooling (internal fan)	OTHERS	CASE SIZE/WEIGHT	*9	388 × 43 × 475mm [15.28 × 1.69 × 18.70 inches] (W × 1	HXD) / 11kg max
	OTHERS	COOLING METHOD		Forced cooling (internal fan)	

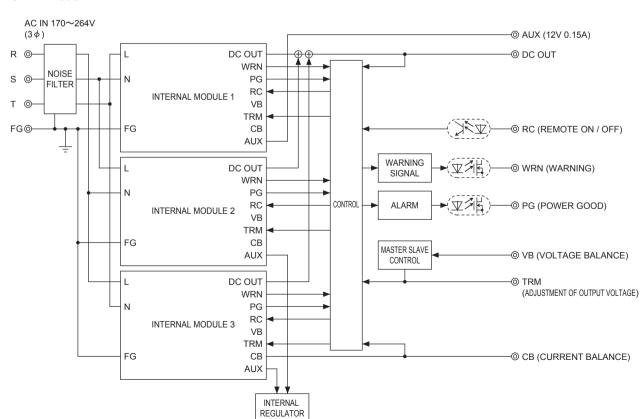
- *1 AUX output power is not included.
- *2 The current of input surge to a built-in noise filter (0.2ms or less) is excluded.
- *3 Measured by 500MHz oscilloscope. Ripple and ripple noise is measured on measuring board with capacitor of 22µF within 150mm from the output terminal.
- *4 Drift is the change 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.
- *5 Can't be used above the rated output current and the rated output power.
- *6 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.</p>
- *7 When the output voltage is adjusted to higher than 149.82V and the load factor is over 70% of the rated current, if the load current changes quickly (<200msec), the output voltage drops approximately 15V below the setting voltage.</p>
- *8 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
- *9 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.



●FETA7000T-48

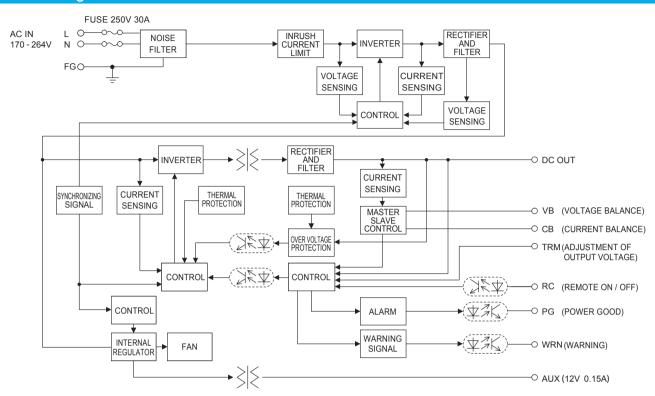


●FETA7000T-144



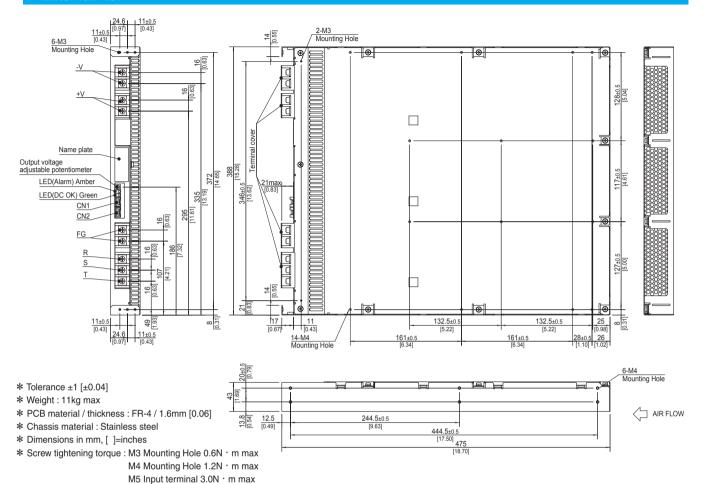


Block diagram of internal module





External view



 $\ensuremath{\boldsymbol{\ast}}$ Please connect safety ground to FG terminal on the unit.

FETA7000ST

A 7000 ST -



Example recommended EMI/EMC filter YAC-25-685

*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. Series name
 Single output
 Output wattage (4)3 φ 4-Wire ⑤Output voltage

*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	FETA7000ST-48	FETA7000ST-144
MAX OUTPUT WATTAGE[W] *1	7113	7488
DC OUTPUT	48V 148.2A	144V 52A

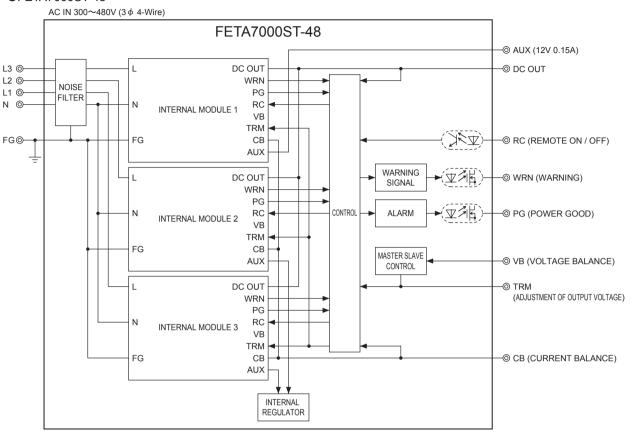
	MODEL		FETA7000ST-48	FETA7000ST-144
	VOLTAGE[V]		AC300 - 480 3 ϕ 4-Wire (Output derating is required at	AC300V - 320V. Refer to "Derating")
	CURRENT[A]	ACIN 400V *2	11.4typ	12.0typ
INPUT	FREQUENCY[Hz]		50 / 60 (47 - 63)	
	EFFICIENCY[%]	ACIN 400V	90.5% (Io=100%)	90.5% (lo=100%)
	POWER FACTOR	ACIN 400V	0.98typ (Io=100%)	
	INRUSH CURRENT[A]	ACIN 400V *3	40max / 80max (Primary inrush current /Secondary in	rush current) (More than 10 sec. to re-start)
	LEAKAGE CURREN	T[mA]	5.0max (ACIN 480V 60Hz, Io=100%, According to IEC	
	VOLTAGE[V]		48	144
	CURRENT[A]	ACIN 300V-320V	Output derating is required at ACIN 320V or less (refer	to "Derating")
	CONNENT[A]	ACIN 320V-480V	148.2	52
	LINE REGULATION[mV]	192max	360max
	LOAD REGULATION	[mV]	960max	1800max
		0 to +40°C *4	360max	720max
	RIPPLE[mVp-p]	-10 to 0°C *4	480max	960max
	DIDDLE NOISE	0 to +40°C *4	480max	960max
OUTPUT	RIPPLE NOISE[mVp-p]	-10 to 0°C *4	600max	1200max
	TEMPERATURE REGULATION(mV)	0 to +40°C	480max	2200max
	TEMPERATURE REGULATION[MV]	-10 to +40°C	600max	2800max
	DRIFT[mV]	*5	192max	384max
	START-UP TIME[s]		1.7max (ACIN 400V, Io=100%)	
	HOLD-UP TIME[ms] ACIN 400V	ACINI 400V	10typ (lo=100%)	
			20typ (lo=50%)	
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V] *6		28.8 - 52.8 *7	86.4 - 158.4 *8
	OUTPUT VOLTAGE SETTING[V]		47 - 49	141 - 147
	OVERCURRENT PROT	ECTION	Works over 105% of rating (Recovers automatically, Hi	
PROTECTION			(Output voltage shuts down when the output voltage continuously drops due to overcurrent protection.) *9	
CIRCUIT AND	OVERVOLTAGE PROTEC	CTION[V] *9	56 - 60	168 - 180
OTHERS	DC_OK LAMP		LED (Green)	
OTTLING	ALARM LAMP		LED (Amber)	
	REMOTE ON/OFF		Provided	,
	INPUT-OUTPUT-AUX-	RC·WRN·PG	AC3,000V 1minute, Cutoff current = 100mA, DC500V	
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature)	
1002/111011	OUTPUT-AUX-RC-WR		AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At room temperature)	
	OUTPUT-AUX-RC-WR		AC100V 1minute, Cutoff current = 100mA, DC100V 50M Ω min (At room temperature)	
	OPERATING TEMP., HUMID		-10 to +60°C (Refer to "Derating"), 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max	
ENVIRONMENT	STORAGE TEMP., HUMID.	AND ALTITUDE	-20 to +75°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/s² (20G), 11ms, once each along X, Y and Z axis	
	AGENCY APPROVAL	LS	UL62368-1, C-UL (CSA62368-1), EN62368-1	
SAFETY AND	CONDUCTED NOISE	E	Complies with FCC Part15-A, CISPR32-A, EN55032-A	A, VCCI-A with an external EMI/EMC filter. (refer to
NOISE REGULATIONS			Instruction manual)	
	HARMONIC ATTENU		Complies with IEC61000-3-2 Class A *10	
OTHERS	CASE SIZE/WEIGHT *11		388 × 43 × 475mm [15.28 × 1.69 × 18.70 inches] (W × F	HXD) / 11kg max
	COOLING METHOD		Forced cooling (internal fan)	

- AUX output power is not included.
- The current flowing through the neutral line increases when AC input voltage is over AC456V 3ϕ 4-Wire. The flowing current will vary according to the input voltage and the load current. The maximum flowing current will be 18A.
- 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 22µF 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.

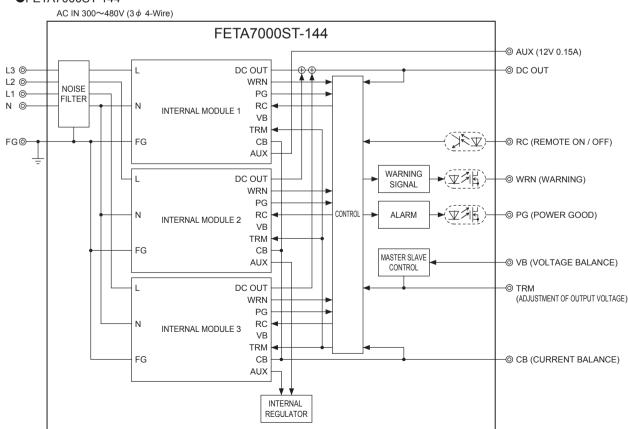
 When the output voltage is adjusted to higher than 149.82V and the load factor is over 70% of the rated current, if the load current changes quickly (<200msec), the output voltage drops approximately 15V below the setting voltage.
- Output voltage recovers from protection by shutting down the input voltage 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.



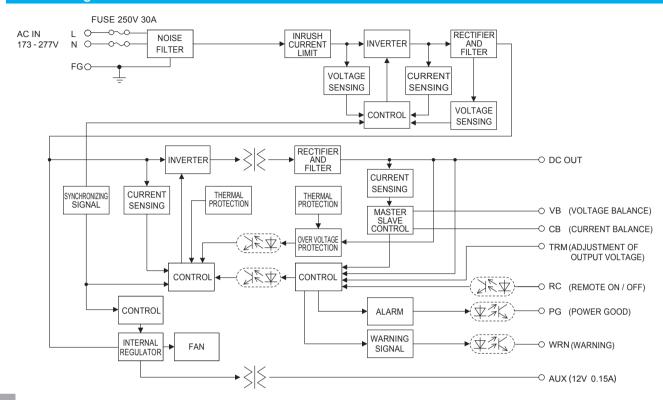
●FETA7000ST-48



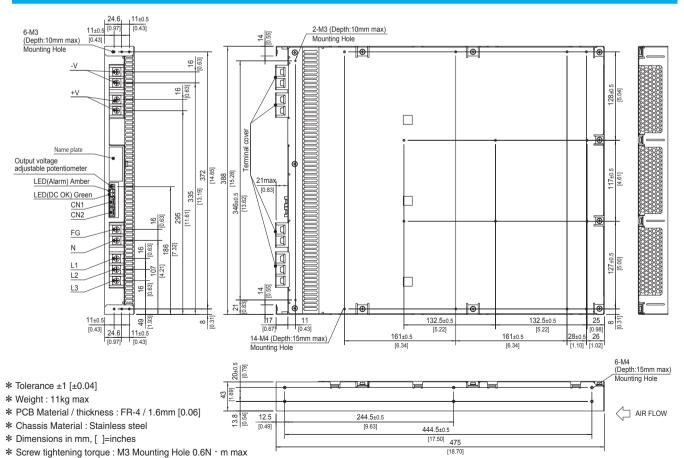
●FETA7000ST-144



Block diagram of internal module



External view



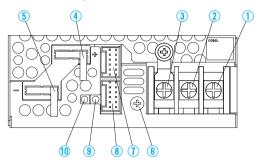
M4 Mounting Hole 1.2N · m max M5 Terminal block 3.0N · m max

* Please connect safety ground to FG terminal on the unit.



Terminal Blocks

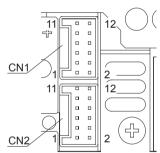
FETA2500BA, 3000BA



- ①AC (L)] Input Terminals AC170 264V 1 φ 47 63Hz
- 2AC (N) (M4)
- ③Frame ground (M4 ±)
- (4)+Output
- (5)-Output
- (6)Output voltage adjustable potentiometer
- (7)CN1)
- $\underbrace{\tilde{\$}\text{CN2}}_{\text{\lozenge}} \Big| \text{Connectors}$
- (9)LED for output voltage confirmation (DC_OK)
- **(I)**LED for fault condition detection (ALARM)

FETA2500BA, 3000BA

Pin Configuration and Functions of CN1, CN2



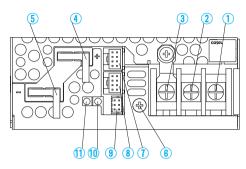
Pin Configuration and Function of CN1, CN2

	3	•
Pin No.	Pin Name	Function
1	AUXG	Auxiliary power output (GND)
2	AUX	Auxiliary power output
3	WRNG	Warning signal (GND)
4	WRN	Warning signal
5	PGG	Alarm signal (GND)
6	PG	Alarm signal
7	RCG	Remote ON/OFF (GND)
8	RC	Remote ON/OFF
9	COM	Signal ground
10	TRM	Adjustment of output voltage
11	VB	Voltage Balance
12	СВ	Current Balance

Mating connector and terminal

	Connector	Housing	Terminal	Mfr.
CN1 CN2	S12B-PUDSS-1	PUDP-12V-S	Reel: SPUD-001T-P0.5 or SPUD-002T-P0.5	J.S.T

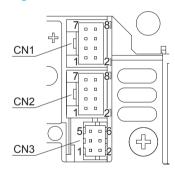
FETA3000BC



- ①AC (L) $\$ Input Terminals AC170 264V 1 ϕ 47 63Hz
- 2AC (N) (M4)
- ③Frame ground (M4 ±)
- 4)+Output
- (5)-Output
- Output voltage adjustable potentiometer
- (7)CN1
- **8**CN2 Connectors
- 9CN3
- (DLED for output voltage confirmation (DC_OK)
- ①LED for fault condition detection (ALARM)

FETA3000BC

Pin Configuration and Function of CN1, CN2, CN3



Pin Configuration and Functions of CN1, CN2

Pin No.	Pin Name	Function
1	N.C.	-
2	N.C.	-
3	N.C.	-
4	N.C.	-
5	COM	Signal ground
6	TRM	Adjustment of output voltage
7	VB	Voltage Balance
8	CB	Current Balance

Pin Configuration and Functions of CN3

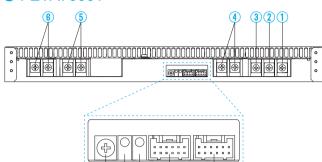
Pin No.	Pin Name	Function
1	WRNG	Warning signal (GND)
2	WRN	Warning signal
3	PGG	Alarm signal (GND)
4	PG	Alarm signal
5	RCG	Remote ON/OFF (GND)
6	RC	Remote ON/OFF

Mating connector and terminal

	Connector	Housing	Terminal	Mfr.
CN1 CN2	S8B-PUDSS-1	PUDP-8V-S	Reel: SPUD-001T-P0.5 or SPUD-002T-P0.5	J.S.T
CN3	DF11-6DP-2DS	DF11-6DS-2C	DE11 220CE	Hirose

Terminal Blocks

FETA7000T



①AC (T) | Input Terminals AC170 - 264V 3 \$\phi\$47 - 63Hz | (M5)

3AC (R) (M5)

④Frame ground (M5 ±)

⑤+Output

6 –Output

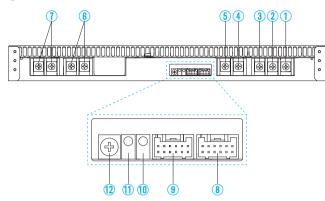
(7CN2) Connectors

(9)LED for output voltage confirmation (DC_OK)

(I)LED for fault condition detection (ALARM)

①Output voltage adjustable potentionmeter

● FETA7000ST



①AC (L3) ②AC (L2) Input Terminals AC170 - 264V 3ϕ - 4 wire 47 - 63Hz

3AC (L1) (M5)

(4)AC (N)

⑤Frame ground (M5 ±)

6 +Output

Output

(8)CN2)

(9)CN1 Connectors

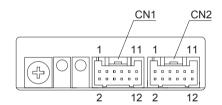
(i)LED for output voltage confirmation (DC_OK)

(1)LED for fault condition detection (ALARM)

Output voltage adjustable potentionmeter

FETA7000T

Pin Configuration and Functions of CN1, CN2



Pin Configuration and Function of CN1, CN2

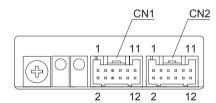
Pin No.	Pin Name	Function
1	AUXG	Auxiliary power output (GND)
2	AUX	Auxiliary power output
3	WRNG	Warning signal (GND)
4	WRN	Warning signal
5	PGG	Alarm signal (GND)
6	PG	Alarm signal
7	RCG	Remote ON/OFF (GND)
8	RC	Remote ON/OFF
9	COM	Signal ground
10	TRM	Adjustment of output voltage
11	VB	Voltage Balance
12	СВ	Current Balance

Mating connector and terminal

	Connector	Housing	Terminal	Mfr.
CN1 CN2	S12B-PUDSS-1	PUDP-12V-S	Reel: SPUD-001T-P0.5 or SPUD-002T-P0.5	J.S.T

FETA7000ST

Pin Configuration and Functions of CN1, CN2



Pin Configuration and Function of CN1, CN2

Pin No.	Pin Name	Function
1	AUXG	Auxiliary power output (GND)
2	AUX	Auxiliary power output
3	WRNG	Warning signal (GND)
4	WRN	Warning signal
5	PGG	Alarm signal (GND)
6	PG	Alarm signal
7	RCG	Remote ON/OFF (GND)
8	RC	Remote ON/OFF
9	COM	Signal ground
10	TRM	Adjustment of output voltage
11	VB	Voltage Balance
12	СВ	Current Balance

Mating connector and terminal

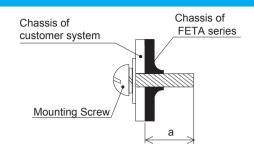
	Connector	Housing	Terminal	Mfr.
CN1 CN2	S12B-PUDSS-1	PUDP-12V-S	Reel: SPUD-001T-P0.5 or SPUD-002T-P0.5	J.S.T



Assembling and Installation Method

Installation Method

- ■Screw mounting requires considering the product weight for safety fixtures.
- ■To keep enough insulation distance between screws and internal components, length of the mounting screw should not exceed recommendation as shown in right figure.

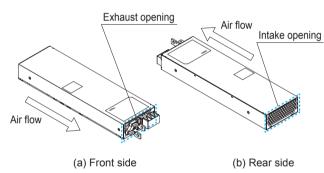


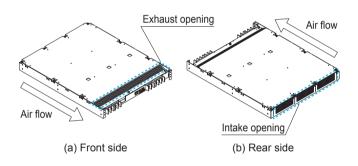
Model	Mounting hole	a (Max penetration length)
FETA2500BA, 3000BA,	Bottom	6mm max
3000BC	Side	4.5mm max
FETA7000T, 7000ST	Side	15mm max

- ■The power supplies have a built-in forced cooling fan. Do notblock ventilation at the suction side and its opposite side.
- * Reverse airflow option (-F2) is available for FETA2500BA. Refer to Instruction manual.
- If you use a power supply in a dusty environment, it can cause a failure. Please consider taking such countermeasures as installing an air filter near the suction area of the system to prevent a failure.

▶ FETA2500BA, 3000BA, 3000BC

FETA7000T, 7000ST





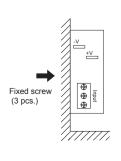




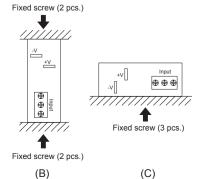
■When mounting the power supply with screws, it is recommended that this be done as shown below. If other methods are used, be sure the weight of the power supply is taken into account.

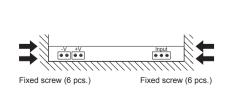
FETA2500BA, 3000BA, 3000BC

FETA7000T, 7000ST

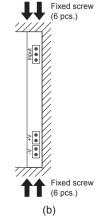


(A)





(a)

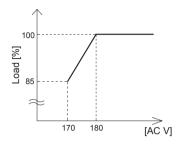


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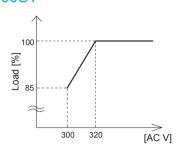


Derating

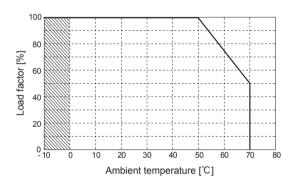
Input Voltage Derating Curve
 FETA2500BA, 3000BA, 3000BC, 7000T



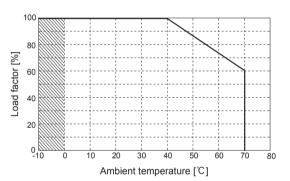
FETA7000ST



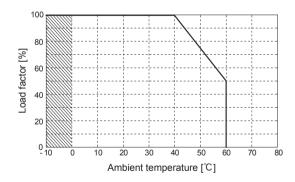
 Ambient Temperature Derating Curve FETA2500BA, FETA3000BA



FETA3000BC



FETA7000T, FETA7000ST



■Specifications for ripple and ripple noise changes in the shadedarea.

Instruction Manual

◆ It is neccessary to read the "Instruction Manual" and "Before using our product" before you use our product.

Instruction Manual
Before using our product

https://www.cosel.co.jp/redirect/catalog/en/FETA/https://en.cosel.co.jp/technical/caution/index.html







Basic Characteristics Data

Model	Civarit mathad	Switching frequency	Input current [A]	Rated	Inrush current	PCB/Pattern			Series/Parallel operation availability	
Model	Circuit method	[kHz]		input fuse	protection circuit	Material	Single sided	Double sided	Series operation	Parallel operation
	Active filter	47								
FETA2500BA	Phase-shift Full-	94	13.8	250V 30A	250V 30A Relay	FR-4		Yes	Yes	Yes
	bridge converter	94								
	Active filter	47	16.6	250V 30A	Relay	FR-4		Yes	Yes	Yes
FETA3000BA	Phase-shift Full-	94								
	bridge converter	94								
	Active filter	47		6.8 250V 30A	A Relay	FR-4				Yes
FETA3000BC	Phase-shift Full-	94	16.8					Yes		
	bridge converter	94								
	Active filter	47		250V 30A		FR-4				
FETA7000T	Phase-shift Full-	0.4	23.9		Relay			Yes	Yes	Yes
	bridge converter	94								

^{*} The value of input current is at ACIN 200V and rated laod.

	Model	Civariit mathad	Switching	Input	current Rated	Inrush current	PCB/Pattern			Series/Parallel operation availability	
		Circuit method	frequency [kHz]			protection circuit	Material	Single sided	Double sided	Series operation	Parallel operation
Ī		Active filter	47	12.0	250V 30A	Relay	FR-4				
	FETA7000ST	Phase-shift Full-	0.4						Yes	Yes	Yes
		bridge converter	94								

^{*} The value of input current is at ACIN 400V and rated load.

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