









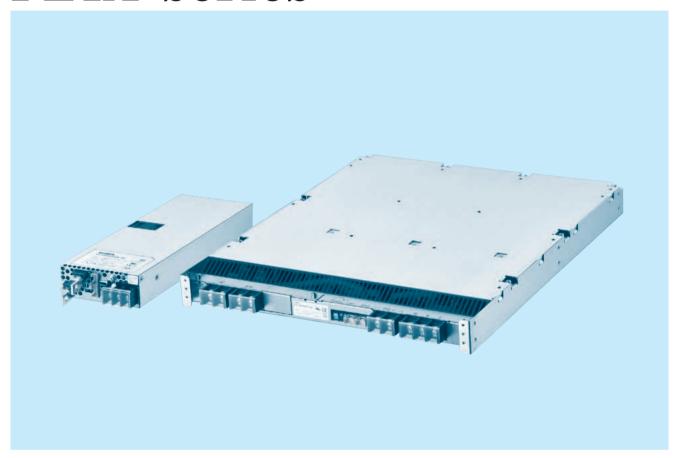








FETA-series



Feature

High power density

Low profile (Meets 1U height.)

High output voltage (FETA7000T-144, FETA7000ST-144)

High efficiency

Harmonic attenuator

(FETA2500BA, 3000BA, 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

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

SPECIFICATIONS

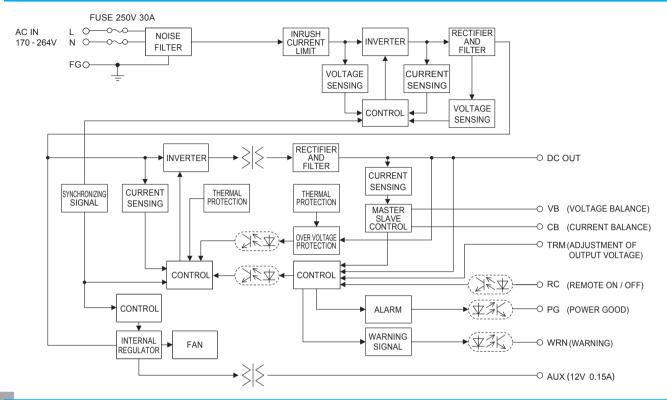
	MODEL		FETA2500BA-36	FETA2500BA-48	
	VOLTAGE[V]		AC170 - 264 1 ϕ (Output derating is required at AC170		
	CURRENT[A] ACIN 200V		11.3typ	13.8tvp	
	FREQUENCY[Hz]		50 / 60 (47 - 63)	*	
			80typ (Io=10%)	83typ (lo=10%)	
INDUT	EEEIOIENOVI0/3	A O IN 1 000 V	87typ (lo=20%)	89typ (lo=20%)	
INPUT	EFFICIENCY[%]	ACIN 230V	91typ (lo=50%)	92.5typ (lo=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 in	rush current) (More than 10 sec. to re-start)	
	LEAKAGE CURRENT	Γ[mA]	0.85max (ACIN 240V 60Hz, lo=100%, According to IE	C62368-1)	
	VOLTAGE[V]		36	48	
	OUDDENITIAL	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	[mV]	360max	480max	
		0 to +50°C *3	300max	360max	
	RIPPLE[mVp-p]	-10 to 0°C *3	360max	480max	
	DIDDLE MOIOELWAY 1	0 to +50°C *3	360max	480max	
OUTPUT	RIPPLE NOISE[mVp-p]	-10 to 0°C *3	480max	600max	
	TEMPERATURE REQUILATIONS 10	0 to +50℃	360max	480max	
	TEMPERATURE REGULATION[mV]	-10 to +50℃	440max	600max	
	DRIFT[mV]	*4	144max	192max	
F	START-UP TIME[s]		1.7max (ACIN 200V, Io=100%)		
	HOLD-UP TIME[ms] ACIN 200V		10typ (Io=100%)		
			20typ (lo=50%)		
	OUTPUT VOLTAGE ADJUSTM	ENT 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 PROT	ECTION	Activate over 105% - 120% of rated current and recovers automatically.		
PROTECTION	OVERCORRENT PROT		(Output voltage shuts down when the output voltage continuously drops due to overcurrent protection.) *7		
CIRCUIT AND	OVERVOLTAGE PROTEC	CTION[V] *7	42.00 - 45.00 56.00 - 60.00		
OTHERS	DC_OK LAMP		LED (Green)		
UTILLIS	ALARM LAMP		LED (Amber)		
	REMOTE ON/OFF		Provided		
	INPUT-OUTPUT-AUX-I	RC·WRN·PG	AC3,000V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At room temperature)		
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At room temperature)		
ISOLATION	OUTPUT-AUX-RC-WRI		AC500V 1minute, Cutoff current = 100mA, DC500V 50		
	OUTPUT-AUX·RC·WR		AC100V 1minute, Cutoff current = 100mA, DC100V 50		
	OPERATING TEMP., HUMID.		-10 to +70℃ (Refer to "Derating"), 20 - 90%RH (Non c		
ENVIRONMENT	STORAGE TEMP., HUMID.	AND ALTITUDE	-20 to +85°C, 20 - 90%RH (Non condensing), 9,000m (30,000 feet) max		
TTI I OTTIVILITY	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes		
	IMPACT		196.1m/s ² (20G), 11ms, once each along X, Y and Z a	xis	
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 *8		
OTHERS	CASE SIZE/WEIGHT	*9	102 X 41 X 340mm [4.02 X 1.61 X 13.39 inches] (W X H	XD) / 2.3kg max	
OTHERS	COOLING METHOD		Forced cooling (internal fan)		
			, ,		

June 25, 2020

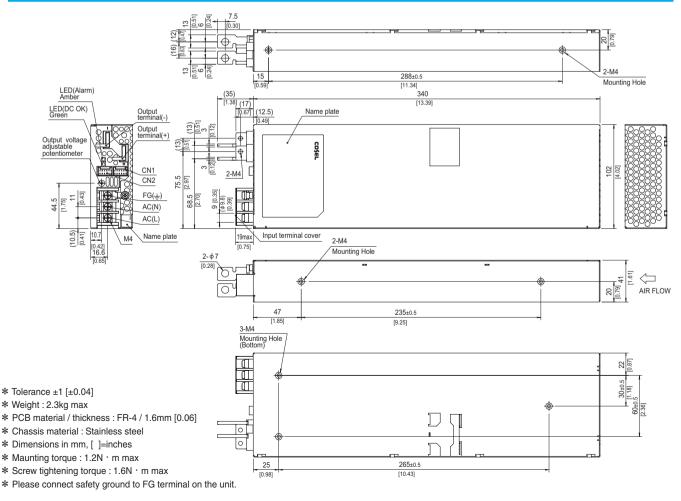
- AUX output power is not included.
- The current of input surge to a built-in noise filter (0.2ms or less) is excluded. Measured by 500MHz oscilloscope.
- - Ripple and ripple noise is measured on measuring board with capacitor of 22µF within 150mm from the output terminal.
- Drift is the change in DC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

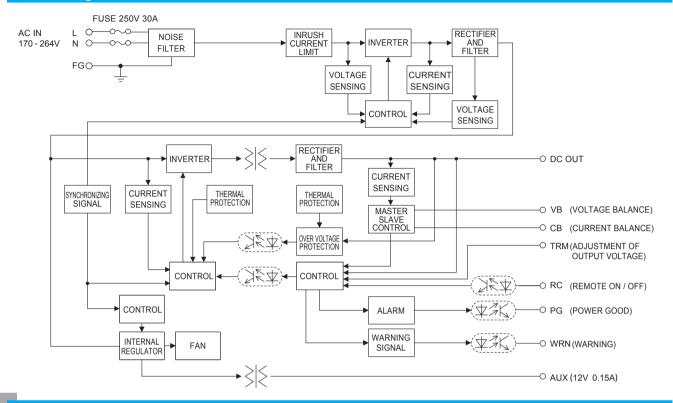
MODEL	FETA3000BA-48
MAX OUTPUT WATTAGE[W] *1	2976
DC OUTPUT	48V 62A

SPECIFICATIONS

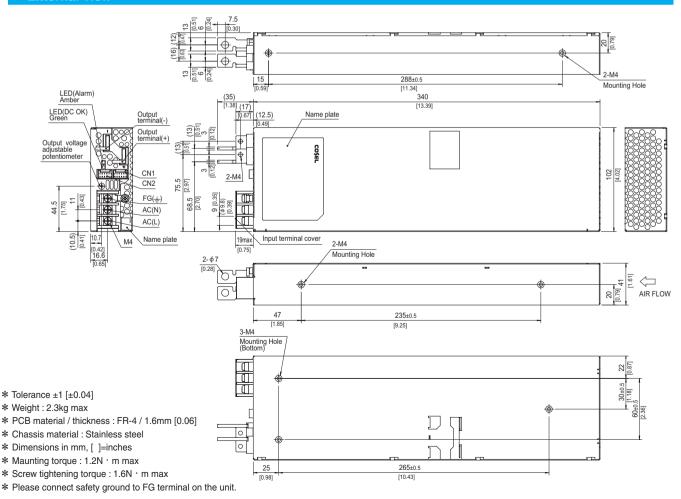
	MODEL		FETA3000BA-48
	VOLTAGE[V]		AC170 - 264 1 φ (Output derating is required at AC170V - 180V. Refer to "Derating")
	CURRENT[A]	ACIN 200V	16.6typ
	FREQUENCY[Hz]		50 / 60 (47 - 63)
			82typ (lo=10%)
INPUT	EFFICIENCY[%]	ACIN 230V	90typ (Io=20%)
	LITIOILINO I[/0]	AOIIV 230V	93typ (lo=50%)
L			91.5typ (lo=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)
	LEAKAGE CURRENT[mA]		0.85max (ACIN 240V 60Hz, lo=100%, According to IEC62368-1)
	VOLTAGE[V]		48
	CURRENTIAI	ACIN 170V-180V	Output derating is required at ACIN 180V or less (refer to "Derating")
		ACIN 180V-264V	62
_	LINE REGULATION[1		192max
L	LOAD REGULATION		480max
	RIPPLE[mVp-p]		360max (Vo=15 - 52.8[V]) *4
L	ulterrilling-bi		480max (Vo=15 - 52.8[V]) *4
	RIPPLE NOISE[mVp-p]	0 to +50°C *3	
OUTPUT	HIFFEE NOISE[IIIVP-P]	-10 to 0°C *3	720max (Vo=15 - 52.8[V]) *4
	TEMPERATURE REGULATION[mV]	0 to +50°C	480max
	-10 to +50℃		600max
	DRIFT[mV] *4		192max
	START-UP TIME[s] *		1.7max (ACIN 200V, Io=100%)
	HOLD-UP TIME[ms] ACIN 200V		10typ (lo=100%)
			20typ (lo=50%)
F	OUTPUT VOLTAGE ADJUSTMENT RANGE[V] *6		38.40 - 52.80
	OUTPUT VOLTAGE SETTING[V]		48.00 - 49.00
	OVERCURRENT PROTECTION		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
CIDCUIT 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·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)
	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
	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 DECLII ATIONS	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
CITICIO	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



FETA7000T

FET A 7000 T -



Example recommended EMI/EMC filter TAC-30-683

*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 ④Triple input phase 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	FETA7000T-48	FETA7000T-144
MAX OUTPUT WATTAGE[W] *1	7113	7488
DC OUTPUT	48V 148.2A	144V 52A

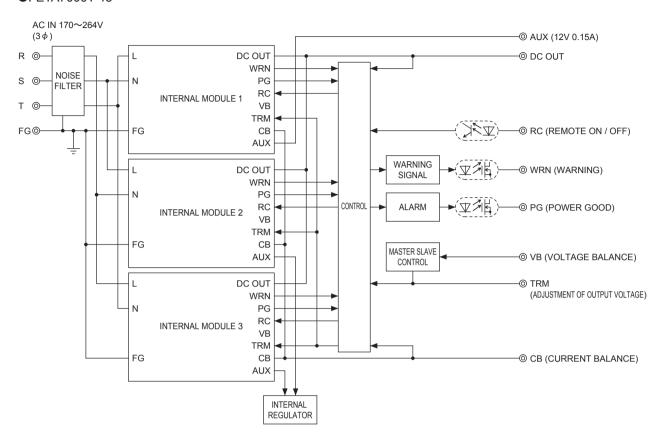
SPECIFICATIONS

	MODEL		FETA7000T-48	FETA7000T-144	
	VOLTAGE[V]		AC170 - 264 3 \(\phi\) (Output derating is required at AC170V - 180V. Refer to "Derating")		
	CURRENT[A]	ACIN 200V	22.7typ	23.9typ	
	FREQUENCY[Hz]		50 / 60 (47 - 63)		
INPUT	EFFICIENCY[%]	ACIN 230V	90.5% (lo=100%)	90.5% (lo=100%)	
	POWER FACTOR	ACIN 230V	0.98typ (lo=100%)		
	INRUSH CURRENT[A]	ACIN 200V *2	30max / 60max (Primary inrush current /Secondary in	rush current) (More than 10 sec. to re-start)	
	LEAKAGE CURRENT[mA]		3.0max (ACIN 240V 60Hz, Io=100%, According to IEC62368-1)		
	VOLTAGE[V]		48	144	
	CURRENT[A]	ACIN 170V-180V	Output derating is required at ACIN 180V or less (refer	to "Derating")	
	CORRENT[A]	ACIN 180V-264V	148.2	52	
	LINE REGULATION[I	mV]	192max	360max	
	LOAD REGULATION	[mV]	960max	1800max	
	RIPPLE[mVp-p]	0 to +40°C *3	360max	720max	
	MIPPLE[IIIVP-P]	-10 to 0°C *3	480max	960max	
	RIPPLE NOISE[mVp-p]	0 to +40°C *3	480max	960max	
OUTPUT	MIPPLE MOISE[IIIVP-P]	-10 to 0°C *3	600max	1200max	
	TEMPERATURE REGULATION[mV]	0 to +40°C	480max	2200max	
		-10 to +40℃	600max	2800max	
	DRIFT[mV]	*4	192max	384max	
	START-UP TIME[s]		1.7max (ACIN 200V, Io=100%)		
	HOLD-UP TIME[ms]	ACIN 200V	10typ (lo=100%)		
			20typ (lo=50%)		
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V] *5		28.8 - 52.8 *6	86.4 - 158.4 *7	
	OUTPUT VOLTAGE SETTING[V]		47 - 49	141 - 147	
	OVERCURRENT PROTECTION		Works over 105% of rating (Recovers automatically, H		
PROTECTION			(Output voltage shuts down when the output voltage co		
CIRCUIT AND	OVERVOLIAGE PROTECTION[V] *8		56 - 60	168 - 180	
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 = 100mA, DC500V 50MΩ min (At room temperature)		
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature)		
	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 ALIIIUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000 feet) max		
	VIBRATION IMPACT		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis		
	AGENCY APPROVAL	0	196.1m/s ² (20G), 11ms, once each along X, Y and Z a UL62368-1, C-UL (CSA62368-1), EN62368-1	XIS	
SAFETY AND				VCCLA	
NOISE REGULATIONS	CONDUCTED NOISE		Complies with FCC Part15-A, CISPR32-A, EN55032-A	A, VUUI-A	
	HARMONIC ATTENU		Complies with IEC61000-3-12	IVD) / 11kg may	
OTHERS	CASE SIZE/WEIGHT	*9	388×43×475mm [15.28×1.69×18.70 inches] (W×H×D) / 11kg max		
	COOLING METHOD		Forced cooling (internal fan)		

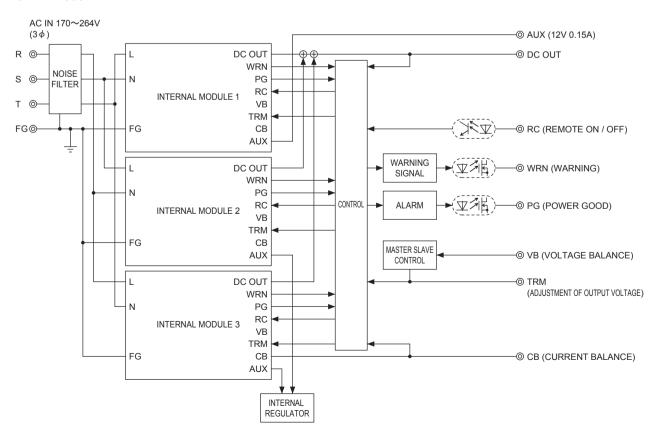
- *1 AUX output power is not included.
- *2 The current of input surge to a built-in noise filter (0.2ms or less) is excluded.
- *3 Measured by 500MHz oscilloscope. Ripple and ripple noise is measured on measuring board with capacitor of 22µF within 150mm from the output terminal.
- *4 Drift is the change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



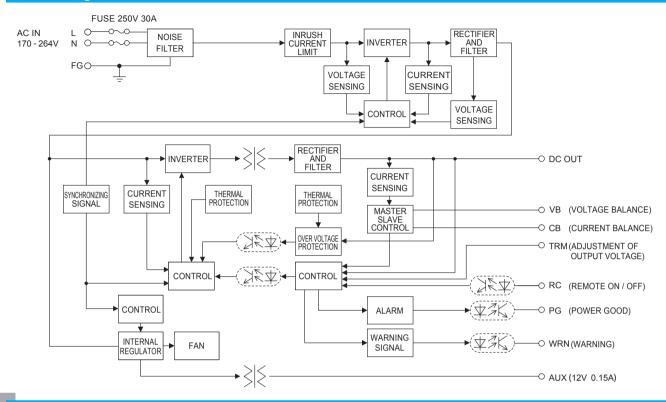
●FETA7000T-144



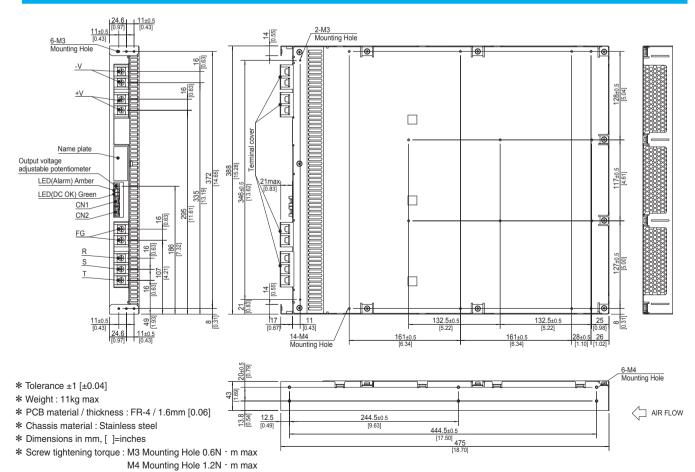
June 25, 2020

COSEL | FETA7000T

Block diagram of internal module



External view



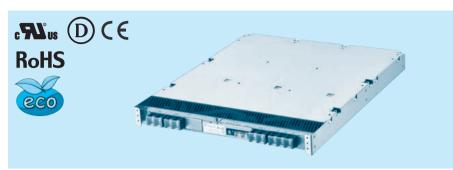
M5 Input terminal 3.0N · m max

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

FETA7000T

FETA7000ST

A 7000 ST -



 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

SPECIFICATIONS

	MODEL		FETA7000ST-48	FETA7000ST-144	
VOLTAGE[V]			AC300 - 480 3 \$\phi\$ 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 IEC62368-1)		
	VOLTAGE[V]		48	144	
	CURRENT[A]	ACIN 300V-320V	Output derating is required at ACIN 320V or less (refer	to "Derating")	
	CONNENTIAL	ACIN 320V-480V	148.2	52	
	LINE REGULATION[mV]	192max	360max	
	LOAD REGULATION	[mV]	960max	1800max	
	DIDDI ElmVa al	0 to +40°C *4	360max	720max	
	RIPPLE[mVp-p]	-10 to 0°C *4	480max	960max	
	DIDDLE NOICEIMV: -1	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	
	I LEWISENATURE REGULATION[IIIV]	-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		10typ (lo=100%)		
	, ,		20typ (lo=50%)		
	OUTPUT VOLTAGE ADJUSTM		28.8 - 52.8 *7	86.4 - 158.4 *8	
	OUTPUT VOLTAGE SET	TING[V]	47 - 49	141 - 147	
	OVERCURRENT PROTECTION		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)		
•	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)		
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At room temperature)		
	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		
CAPETY AND	AGENCY APPROVAL	LS	UL62368-1, C-UL (CSA62368-1), EN62368-1	NOOLA with an external ENVENCE CO.	
SAFETY AND	CONDUCTED NOISE		Complies with FCC Part15-A, CISPR32-A, EN55032-A, VCCI-A with an external EMI/EMC filter. (refer to		
NOISE REGULATIONS		IATOR	Instruction manual)		
	HARMONIC ATTENU		Complies with IEC61000-3-2 Class A *10		
OTHERS	CASE SIZE/WEIGHT	*11	esservision (research and research and resea		
	COOLING METHOD		Forced cooling (internal fan)		

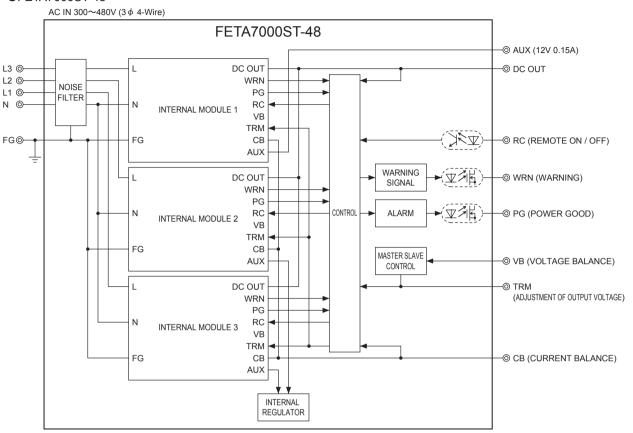
- AUX output power is not included.
- The current flowing through the neutral line increases when AC input voltage is over AC456V 3 φ 4-Wire. The flowing current will vary according to the input voltage and the load current. The maximum flowing current will be 18A.
- The current of input surge to a built-in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

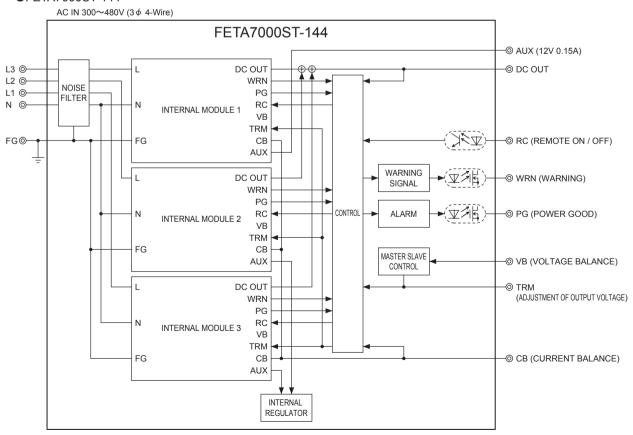
 Please contact us about another class.
- Case size contains neither the terminal blocks, connector and screw.
- To meet the specifications, do not operate over-loaded condition
- A sound may occur from power supply at peak loading.



●FETA7000ST-48



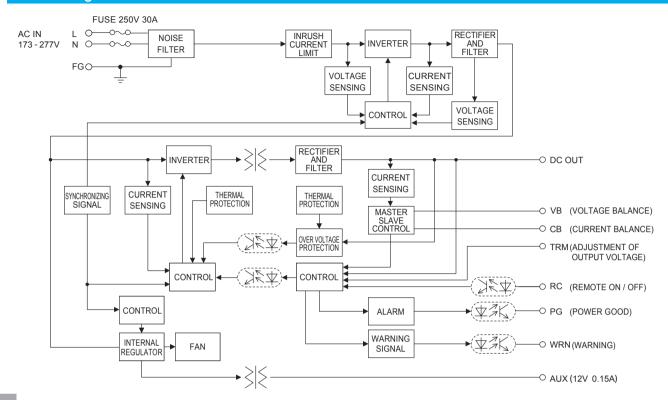
●FETA7000ST-144



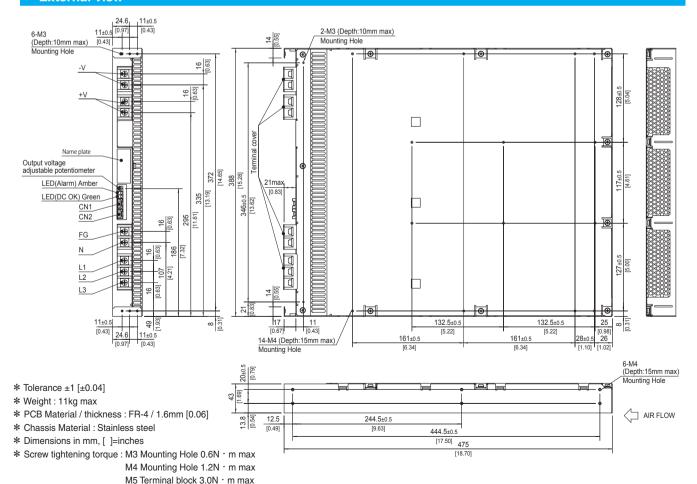
June 25, 2020

FETA7000ST

Block diagram of internal module



External view

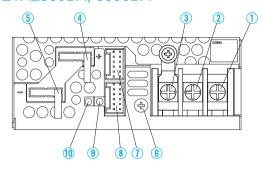


* Please connect safety ground to FG terminal on the unit.



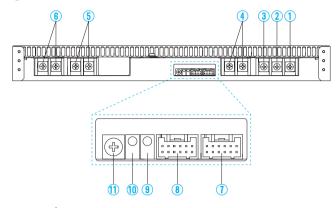
Terminal Blocks

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)
- $\underbrace{\$\text{CN2}}_{\text{\$}\text{CN2}} \Big| \text{Connectors}$
- (9)LED for output voltage confirmation (DC_OK)
- **(1)**LED for fault condition detection (ALARM)

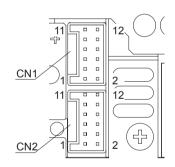
FETA7000T



- 3AC (R) (M5)
- ④Frame ground (M5 ±)
- ⑤+Output
- **6**-Output
- (7)CN2
- Connectors (8)CN1
- (9)LED for output voltage confirmation (DC_OK)
- (10)LED for fault condition detection (ALARM)
- 11)Output voltage adjustable potentionmeter

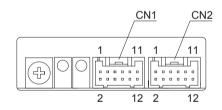
FETA2500BA, 3000BA

Pin Configuration and Functions of CN1, CN2



FETA7000T

Pin Configuration and Functions 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	CB	Current Balance

	Connector	Housing	Terminal	Mfr.
CN1	S12B-PUDSS-1	Ree	Reel: SPUD-001T-P0.5	LOT
CN2		PUDP-12V-3	or SPUD-002T-P0.5	J.S.1

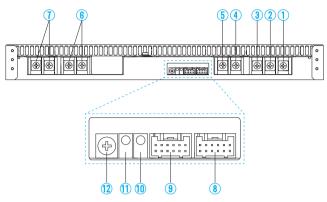
Pin No.	Pin Name	Function
1	AUXG	Auxiliary power output (GND)
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4	WRN	Warning signal
5	PGG	Alarm signal (GND)
6	PG	Alarm signal
7	RCG	Remote ON/OFF (GND)
8	RC	Remote ON/OFF
9	COM	Signal ground
10	TRM	Adjustment of output voltage
11	VB	Voltage Balance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

	Connector	Housing	Terminal	Mfr.
CN1	S12B-PUDSS-1	DUDD 40V.C	Reel: SPUD-001T-P0.5	19.7
CN2		FUDF-12V-3	or SPUD-002T-P0.5	J.S.1

COSEL | FETA-series

Terminal Blocks

FETA7000ST



①AC (L3)

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

3AC (L1) (M5)

4AC (N)

⑤Frame ground (M5 ±)

6+Output

(7)-Output

(8)CN2)

(9)CN1 Connectors

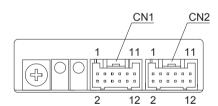
(DLED for output voltage confirmation (DC_OK)

①LED for fault condition detection (ALARM)

①Output voltage adjustable potentionmeter

● FETA7000ST

Pin Configuration and Functions 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					

	Connector	Housing	Terminal	Mfr.
CN1	S12B-PUDSS-1	DI IDD 13\/ C	Reel: SPUD-001T-P0.5	ICT
CN2	3126-P0033-1	FUDF-12V-3	or SPUD-002T-P0.5	J.S. I

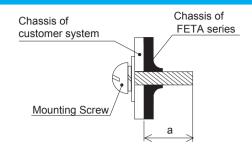
FETA-14 June 25, 2020



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.



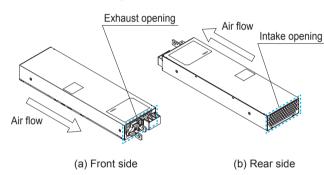
Model	Mounting hole	a (Max penetration length)			
FETA2500BA, 3000BA	Bottom	6mm max			
FE IAZOUDA, SUUUDA	Side	4.5mm max			
FETA7000T, 7000ST	Side	15mm max			

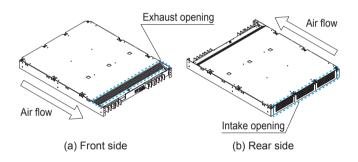
- ■The power supplies have a built-in forced cooling fan. Do notblock ventilation at the suction side and its opposite side.
- * Reverse airflow option (-F2) is available for FETA2500BA. Refer to Instruction manual.
- If you use a power supply in a dusty environment, it can cause a failure. Please consider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

▶ FETA2500BA, 3000BA

FETA7000T, 7000ST

FETA7000T, 7000ST







Fixed screw (2 pcs.)

(B)



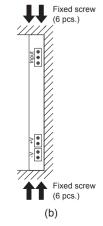
■When mounting the power supply with screws, it is recommended that this be done as shown below. If other methods are used, be sure the weight of the power supply is taken into account.

FETA2500BA, 3000BA

(A)

Fixed screw (2 pcs.) $\oplus \oplus \oplus$ Fixed screw (6 pcs.) Fixed screw (6 pcs.) Fixed screw **⊕** (3 pcs.) **⊕** Fixed screw (3 pcs.)

(C)



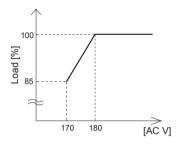
June 25, 2020 FETA-15

(a)

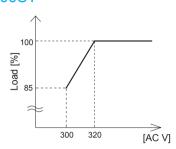


Derating

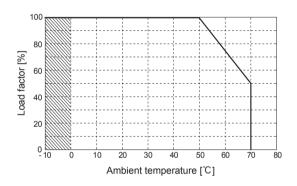
 Input Voltage Derating Curve FETA2500BA, 3000BA, 7000T



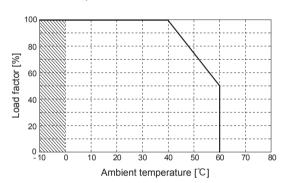
FETA7000ST



 Ambient Temperature Derating Curve FETA2500BA, FETA3000BA



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://en.cosel.co.jp/product/powersupply/FETA/https://en.cosel.co.jp/technical/caution/index.html









Basic Characteristics Data

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

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

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

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

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