

\*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 ¢ (Output derating is required at AC1	70V - 180V. Refer to Derating)	
	CURRENT[A]	ACIN 200V	11.3typ	13.8typ	
	FREQUENCY[Hz]		50 / 60 (47 - 63)		
			80typ (lo=10%)	83typ (lo=10%)	
IPUT			87typ (lo=20%)	89typ (lo=20%)	
IPUI	EFFICIENCY[%]	ACIN 230V	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	
	• • •	ACIN 170V-180V	Output derating is required at ACIN 180V or less (re	fer to Derating)	
	CURRENT[A]	ACIN 180V-264V	55	52	
	LINE REGULATION		144max	192max	
	LOAD REGULATION		360max	480max	
		0 to +50℃ *3	300max	360max	
	RIPPLE[mVp-p]	-10 to 0°C *3	360max	480max	
		0 to +50℃ *3	360max	480max	
	RIPPLE NOISE[mVp-p]		480max	600max	
		0 to +50℃	360max	480max	
	TEMPERATURE REGULATION[mV]	-10 to +50℃	440max	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%)		
			28.80 - 39.60	38.40 - 52.80 *6	
	OUTPUT VOLTAGE SET		36.00 - 37.44	48.00 - 49.92	
			Activate over 105% - 120% of rated current and reco		
	OVERCURRENT PROT	ECTION	(Output voltage shuts down when the output voltage continuously drops due to overcurrent protection.) *7		
ROTECTION	OVERVOLTAGE PROTECTION[V] *7		42.00 - 45.00	56.00 - 60.00	
<b>IRCUIT AND</b>	DC OK LAMP		LED (Green)	30.00 - 00.00	
THERS	ALARM LAMP		LED (Amber)		
	REMOTE ON/OFF		Provided		
	INPUT-OUTPUT AUX		AC3,000V 1minute, Cutoff current = 25mA, DC500V 50M $\Omega$ min (At room temperature)		
	INPUT-FG		AC2,000V Iminute, Cutoff current = 25mA, DC500V 50M $\Omega$ min (At room temperature)		
OLATION		N-PG_FG	AC2,000V Iminute, Cutoff current = 25mA, DC500V 50M $\Omega$ min (At room temperature) AC500V 1minute, Cutoff current = 100mA, DC500V 50M $\Omega$ min (At room temperature)		
	OUTPUT-AUX RC WR				
	OPERATING TEMP., HUMID.		AC100V 1minute, Cutoff current = 100mA, DC100V 50MΩ min (At room temperature) -10 to +70°C (Output derating is required), 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max		
	STORAGE TEMP., HUMID.				
VIRONMENT	VIBRATION	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		
	IMPACT		196.1m/s <sup>2</sup> (20G), 11ms, once each along X, Y and Z		
	AGENCY APPROVAL	6	UL62368-1, C-UL (CSA62368-1), EN62368-1	αλιδ	
FETY AND					
DISE REGULATIONS	CONDUCTED NOISE		Complies with FCC Part 15-A, CISPR32-A, EN5503	2-A, VUUI-A	
	HARMONIC ATTENU		Complies with IEC61000-3-2 Class A *8		
THERS	CASE SIZE/WEIGHT	*9	102×41×340mm [4.02×1.61×13.39 inches] (W×	H × D) / 2.3kg max	
	COOLING METHOD		Forced cooling (internal fan)		

\*7

remote control.

AUX output power is not included. \*1

The current of input surge to a built-in noise filter (0.2ms or less) is excluded. Measured by 500MHz oscilloscope. \*2 \*3

Ripple and ripple noise is measured on measuring board with capacitor of  $22\mu\text{F}$  within \*8 150mm from the output terminal.

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. \*9

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

A sound may occur from power supply at peak loading.

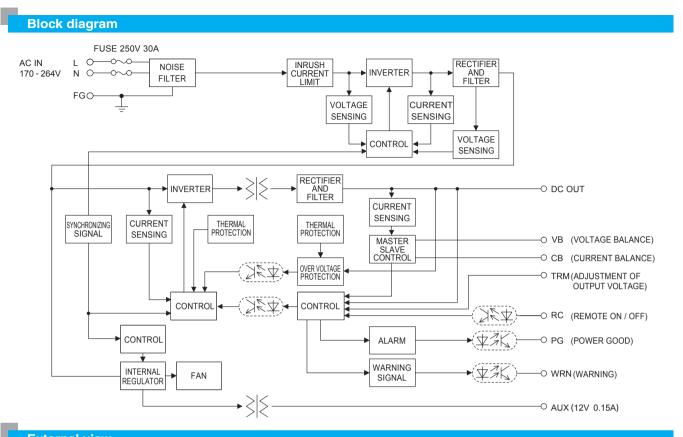
Drift is the change in DC output for an eight hour period after a half-hour warm-up at  $25\degree$ , with the input voltage held constant at the rated input/output.

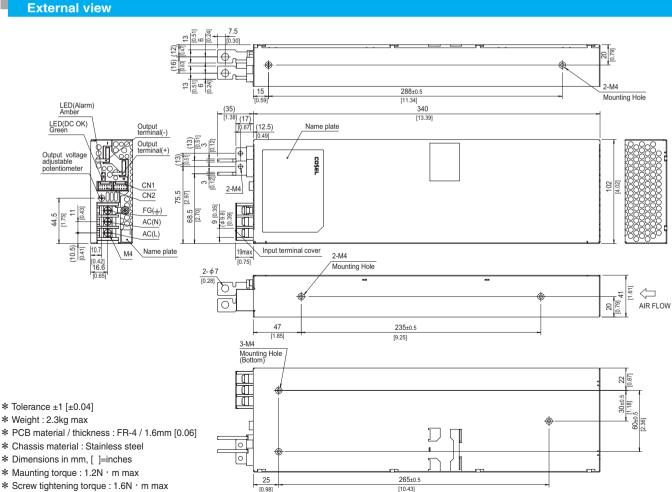
\*5

Can't be used above the rated output current and the rated output power. When the output voltage is adjusted to higher than 49.92V and the load factor is over 70% \*6 of the rated current, if the load current changes quickly (< 200msec), the output voltage drops approximately 5V below the setting voltage.

\*4

FETA2500BA | COŞEL





[0.98]

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

[10.43]



\*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]	1	50 / 60 (47 - 63)
			82typ (lo=10%)
INPUT	EFFICIENCY[%]	ACIN 230V	90typ (lo=20%)
			93typ (lo=50%)
			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 CURREN	T[mA]	0.85max (ACIN 240V 60Hz, lo=100%, According to IEC62368-1)
	VOLTAGE[V]		48
	CURRENT[A]	ACIN 170V-180V	Output derating is required at ACIN 180V or less (refer to Derating)
	CORRENT[A]	ACIN 180V-264V	62
	LINE REGULATION	mV]	192max
	LOAD REGULATION	[mV]	480max
		0 to +50℃ *3	360max (Vo=15 - 52.8[V]) *4
	RIPPLE[mVp-p]		480max (Vo=15 - 52.8[V]) *4
			600max (Vo=15 - 52.8[V]) *4
OUTPUT	RIPPLE NOISE[mVp-p]		720max (Vo=15 - 52.8[V]) *4
		0 to +50℃	480max
		-10 to +50°C	600max
			192max
			1.7max (ACIN 200V, Io=100%)
		*5	10typ (lo=100%)
	HOLD-UP TIME[ms]	ACIN 200V	20typ (lo=100%)
	OUTPUT VOLTAGE ADJUSTM		38.40 - 52.80
			48.00 - 49.00
	OUTPUT VOLTAGE SETTING[V]		
	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
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 50MΩ min (At room temperature)
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 25mA, DC500V 50M $\Omega$ min (At room temperature)
	OUTPUT·AUX·RC·WR		AC500V 1minute, Cutoff current = 100mA, DC500V 50M $\Omega$ min (At room temperature)
	OUTPUT-AUX RC WR		AC100V 1minute, Cutoff current = 100mA, DC100V 50M $\Omega$ min (At room temperature)
	OPERATING TEMP., HUMID	AND ALTITUDE	-10 to +70°C (Output derating is required), 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
	AGENCY APPROVAI	LS	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		
OTHERS	COOLING METHOD		Forced cooling (internal fan)
	COOLING WEI HOD		

**k**8

\*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.

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.

Measured by SUDIMHZ oscilloscope. 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

\*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.

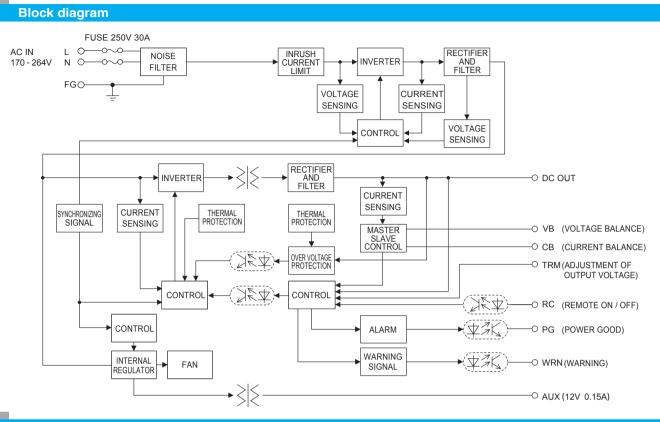
\*4 The output voltage should not be adjusted to 15V or less because the ripple and ripple noise would be out of specs and the unit would make the audible noise.
5 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.

\*5 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.

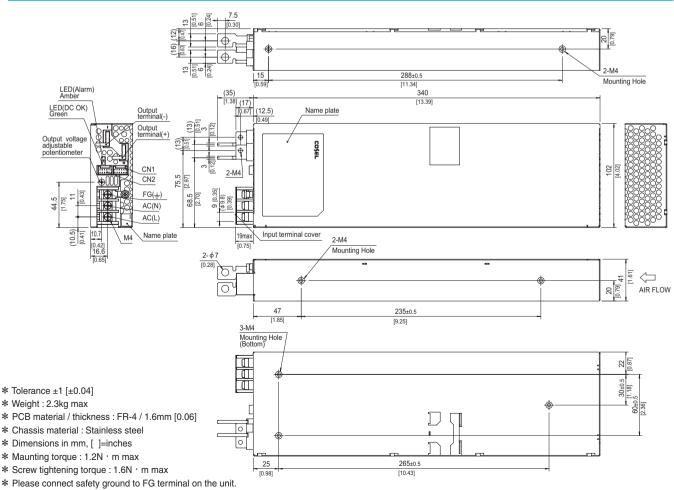
\*6 Can't be used above the rated output current and the rated output power.

\*7 Output voltage recovers from protection by shutting down the input voltage and waiting

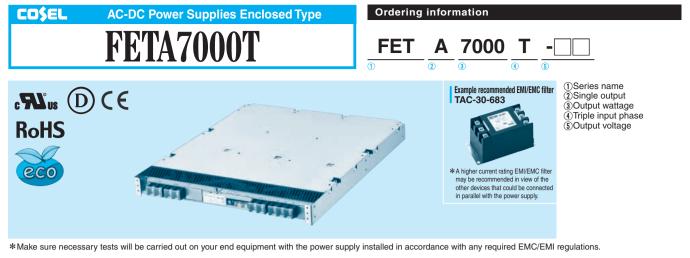
FETA3000BA | COŞEL







FETA-5



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 AC17	70V - 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	nrush current) (More than 10 sec. to re-start)
	LEAKAGE CURREN	Γ[mA]	3.0max (ACIN 240V 60Hz, Io=100%, According to IE	C62368-1)
	VOLTAGE[V]		48	144
	CURRENT[A]	ACIN 170V-180V	Output derating is required at ACIN 180V or less (refe	er to Derating)
	CORRENT[A]	ACIN 180V-264V	148.2	52
	LINE REGULATION[	mV]	192max	360max
	LOAD REGULATION	[mV]	960max	1800max
		0 to +40℃ *3	360max	720max
	RIPPLE[mVp-p]	-10 to 0℃ *3	480max	960max
		0 to +40℃ *3	480max	960max
UTPUT	RIPPLE NOISE[mVp-p]	-10 to 0°C *3	600max	1200max
		0 to +40℃	480max	2200max
	TEMPERATURE REGULATION[mV]	-10 to +40℃	600max	2800max
	DRIFT[mV]	*4	192max	384max
	START-UP TIME[s]		1.7max (ACIN 200V, Io=100%)	
-			10typ (lo=100%)	
	HOLD-UP TIME[ms] ACIN 200V		20typ (lo=50%)	
	OUTPUT VOLTAGE ADJUSTM	ENT RANGE[V] *5	28.8 - 52.8 *6	86.4 - 158.4 *7
	OUTPUT VOLTAGE SET		47 - 49	141 - 147
	<b>.</b>		Works over 105% of rating (Recovers automatically, Hiccup overcurrent)	
	OVERCURRENT PROTECTION		(Output voltage shuts down when the output voltage continuously drops due to overcurrent protection.) *8	
ROTECTION	OVERVOLTAGE PROTEC	CTION[V] *8	56 - 60	168 - 180
IRCUIT AND	DC OK LAMP		LED (Green)	
THERS	ALARM LAMP		LED (Amber)	
	REMOTE ON/OFF		Provided	
	INPUT-OUTPUT AUX	RC·WRN·PG	AC3,000V 1minute, Cutoff current = 100mA, DC500V	$750M\Omega$ min (At room temperature)
	INPUT-FG		AC2,000V 1minute, Cutoff current = 100mA, DC500V 50M $\Omega$ min (At room temperature)	
SOLATION	OUTPUT·AUX·RC·WR	N·PG-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50M $\Omega$ min (At room temperature)	
	OUTPUT-AUX RC WR		AC100V 1minute, Cutoff current = 100mA, DC100V 50M $\Omega$ min (At room temperature)	
	OPERATING TEMPHUMID		-10 to $+60^{\circ}$ (Output derating is required), 20 - 90% R	
	STORAGE TEMP., HUMID.		-20 to $+75^{\circ}$ C, 20 - 90%RH (Non condensing), 9,000m	
NVIRONMENT	VIBRATION		10 - 55Hz, $19.6$ m/s <sup>2</sup> (2G), 3minutes period, 60minutes	
	IMPACT		$196.1 \text{m/s}^2$ (20G), 11ms, once each along X, Y and Z	
	AGENCY APPROVAL	S	UL62368-1, C-UL (CSA62368-1), EN62368-1	
AFETY AND	CONDUCTED NOISE	-	Complies with FCC Part15-A, CISPR32-A, EN55032-	A. VCCI-A
DISE REGULATIONS	HARMONIC ATTENU		Complies with IEC61000-3-12	
	CASE SIZE/WEIGHT		388×43×475mm [15.28×1.69×18.70 inches] (W×	HXD) / 11kg max
OTHERS	COOLING METHOD	***	Forced cooling (internal fan)	
	COOLING WETHOD			

\*8

The current of input surge to a built-in noise filter (0.2ms or less) is excluded. **\***2

Measured by 500MHz oscilloscope. Ripple and ripple noise is measured on measuring board with capacitor of 22µF within \*3

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.

Can't be used above the rated output current and the rated output power. \*5

\*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.

more than 10 seconds then turning on AC input again, or turning off the output voltage by remote control

of the rated current, if the load current changes quickly (<200msec), the output voltage

Output voltage recovers from protection by shutting down the input voltage and waiting

\*9 Case size contains neither the terminal blocks, connector and screw.

To meet the specifications, do not operate over-loaded condition. \*

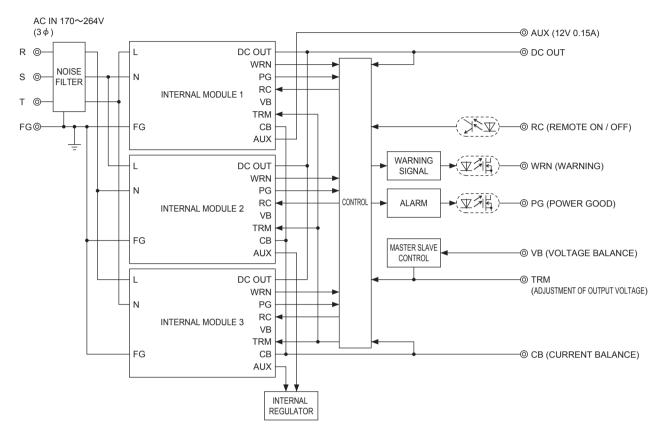
drops approximately 15V below the setting voltage.

A sound may occur from power supply at peak loading.

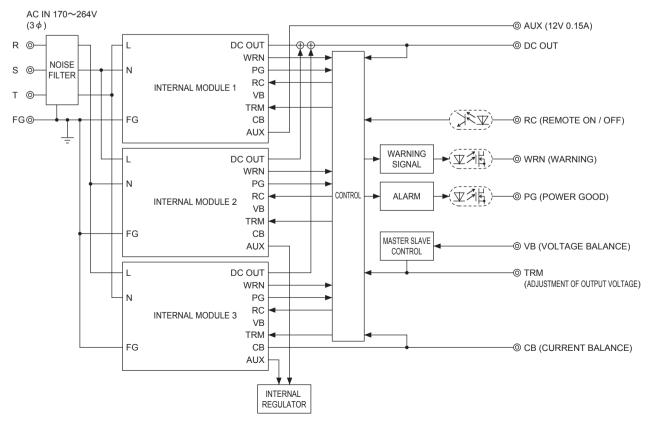
FETA7000T | CO\$EL

### **Block diagram**

#### ●FETA7000T-48

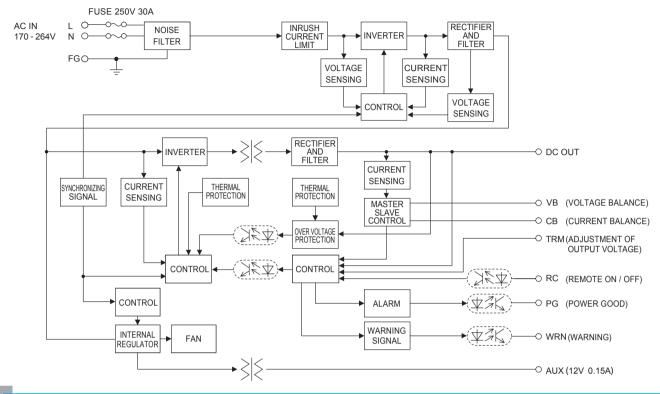


#### ●FETA7000T-144

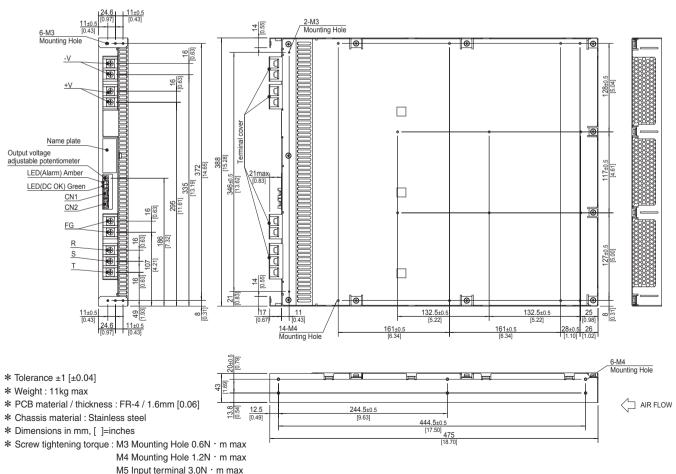


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#### Block diagram of internal module



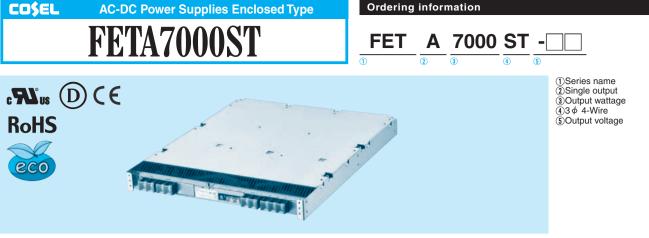
External view



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

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# FETA7000T | CO\$EL



\*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 i	s 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% (lo=100%)	90.5% (lo=100%)	
	POWER FACTOR	ACIN 400V	0.98typ (lo=100%)		
	INRUSH CURRENT[A]	ACIN 400V *3		Secondary inrush current) (More than 10 sec. to re-start)	
	LEAKAGE CURREN	T[mA]	5.0max (ACIN 480V 60Hz, Io=100%, Acco		
	VOLTAGE[V]	[]	48	144	
		ACIN 300V-320V	Output derating is required at ACIN 320V		
	CURRENT[A]	ACIN 320V-480V	148.2	52	
	LINE REGULATION	mV1	192max	360max	
	LOAD REGULATION		960max	1800max	
		0 to +40℃ *4	360max	720max	
	RIPPLE[mVp-p]	-10 to 0°C *4	480max	960max	
			480max	960max	
OUTPUT	RIPPLE NOISE[mVp-p]	-10 to 0°C *4	600max	1200max	
5011 01		0 to +40°C	480max	2200max	
	TEMPERATURE REGULATION[mV]	-10 to +40℃	600max	2800max	
	DRIFT[mV]	*5	192max	384max	
	START-UP TIME[s]	*0	1.7max (ACIN 400V, Io=100%)	- 504IIIax	
			10typ (lo=100%)		
	HOLD-UP TIME[ms]	ACIN 400V	20typ (lo=50%)		
			28.8 - 52.8 *7	86.4 - 158.4 *8	
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V] *6		47 - 49	141 - 147	
	OUTPUT VOLTAGE SETTING[V]		Works over 105% of rating (Recovers auto		
			0 (	but voltage continuously drops due to overcurrent protection.) *9	
PROTECTION				168 - 180	
CIRCUIT AND	OVERVOLTAGE PROTECTION[V] *9			100 - 100	
OTHERS	DC_OK LAMP		LED (Green) LED (Amber)		
	ALARM LAMP		Provided		
	REMOTE ON/OFF				
	INPUT-OUTPUT·AUX·	RC·WRN·PG		A, DC500V 50M $\Omega$ min (At room temperature)	
SOLATION	INPUT-FG			A, DC500V 50M $\Omega$ min (At room temperature)	
	OUTPUT·AUX·RC·WR			, DC500V 50M $\Omega$ min (At room temperature)	
	OUTPUT-AUX RC·WR		AC100V 1minute, Cutoff current = 100mA, DC100V 50MΩ min (At room temperature) -10 to +60°C (Output derating is required), 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max		
	OPERATING TEMP., HUMID				
INVIRONMENT	STORAGE TEMP., HUMID.	AND ALIIIUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000 feet) max		
	VIBRATION		10 - 55Hz, 19.6m/s <sup>2</sup> (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	_S	UL62368-1, C-UL (CSA62368-1), EN6236		
SAFETY AND	CONDUCTED NOISE			A, EN55032-A, VCCI-A with an external EMI/EMC filter. (refer to	
IOISE 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 ir	nches] (W×H×D) / 11kg max	
SITIENO	COOLING METHOD		Forced cooling (internal fan)		
*1 AUX out	tput power is not included.		of the	rated current, if the load current changes quickly (< 200msec), the output volta	
			ses when AC input voltage is over drops	approximately 5V below the setting voltage.	
				the output voltage is adjusted to higher than 149.82V and the load factor is over 70 rated surrent if the load surrent shanges guidely (200macs) the surrent voltage	
	rent. The maximum flowing or rent of input surge to a built-i			rated current, if the load current changes quickly (<200msec), the output volta approximately 15V below the setting voltage.	
o I ne curi		in noise illier (0.20			
*4 Measure	ed by 500MHz oscilloscope.		uqtuO e*	t voltage recovers from protection by shutting down the input voltage and waiti	

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, \*5

remote control. Please contact us about another class. \*10 \*11 with the input voltage held constant at the rated input/output.

\*6

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% \*7

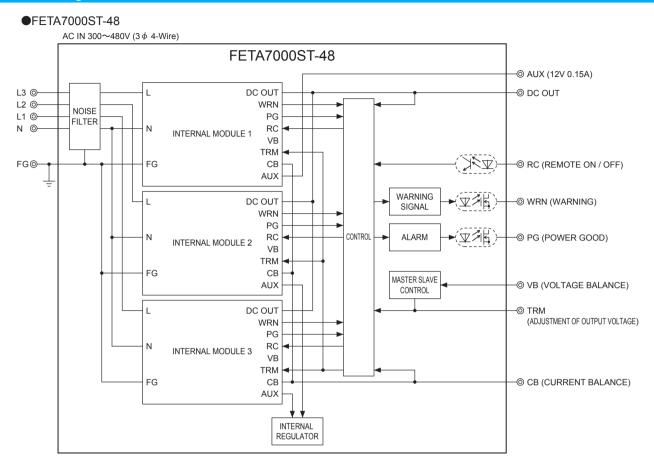
Case size contains neither the terminal blocks, connector and screw.

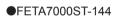
To meet the specifications, do not operate over-loaded condition. \*

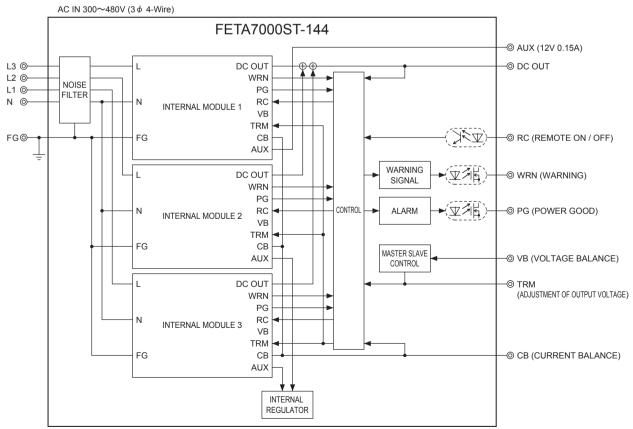
A sound may occur from power supply at peak loading.



#### **Block diagram**

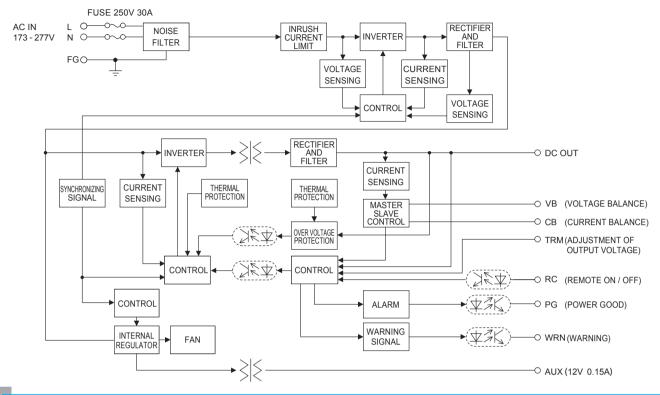




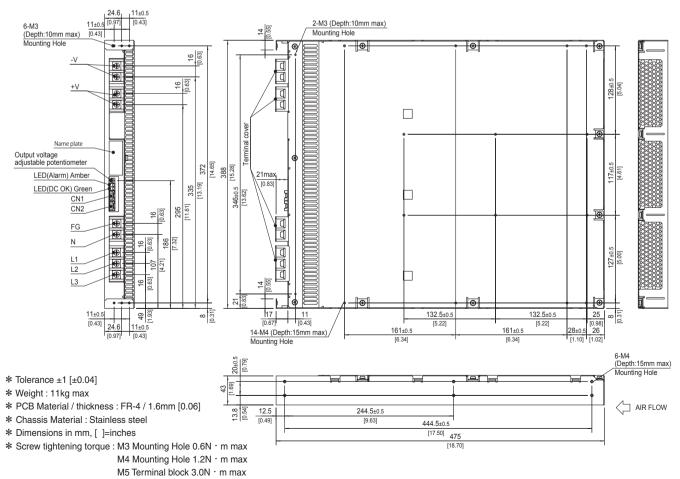


# COȘEL | FETA7000ST

#### Block diagram of internal module



#### External view

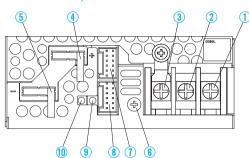


\* Please connect safety ground to FG terminal on the unit.

FETA-series | COSEL

### **Terminal Blocks**

### FETA2500BA, 3000BA

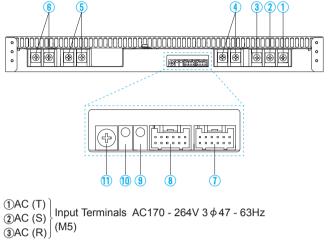


①AC (L) Input Terminals AC170 - 264V 1 ¢ 47 - 63Hz
②AC (N) (M4)
③Frame ground (M4 -)
④+Output
⑤-Output
⑥Output voltage adjustable potentiometer
⑦CN1 ⑧CN2 Connectors

(a) LED for output voltage confirmation (DC\_OK)

0LED for fault condition detection (ALARM)

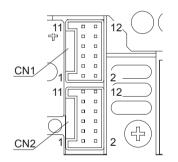
# FETA7000T



②AC (S) (Input Terminals AC170 - 264V 3 ¢ 47 - 63Hz
③AC (R) (M5)
④Frame ground (M5 ≟)
⑤+Output
⑥-Output
⑦CN2
⑧CN1 Connectors
⑧LED for output voltage confirmation (DC\_OK)
⑩LED for fault condition detection (ALARM)
⑪Output voltage adjustable potentionmeter

# FETA2500BA, 3000BA

## Pin Configuration and Functions of CN1, CN2

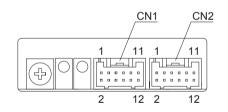


Pin No.	Pin Name	Function
1	AUXG	Auxiliary power output (GND)
2	AUX	Auxiliary power output
3	WRNG	Warning signal (GND)
4	WRN	Warning signal
5	PGG	Alarm signal (GND)
6	PG	Alarm signal
7	RCG	Remote ON/OFF (GND)
8	RC	Remote ON/OFF
9	COM	Signal ground
10	TRM	Adjustment of output voltage
11	VB	Voltage Balance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

	Connector	Housing	Terminal	Mfr.
CN1	S12B-PUDSS-1		Reel: SPUD-001T-P0.5 or SPUD-002T-P0.5	іст
CN2	512B-P0D55-1	PUDP-12V-5	or SPUD-002T-P0.5	J.S.I

# FETA7000T

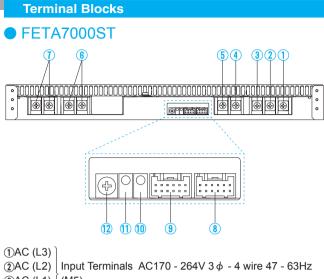
# Pin Configuration and Functions of CN1, CN2



Pin No.	Pin Name	Function
1	AUXG	Auxiliary power output (GND)
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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		Reel: SPUD-001T-P0.5	ют
CN2	5128-P0055-1	PUDP-12V-5	or SPUD-002T-P0.5	J.S.I

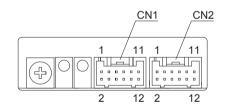
# **COȘEL** | FETA-series



(2)AC (L2) Input Terminals AC170 - 264V 3 φ - 4 wire 47 - 63H
(3)AC (L1) (M5)
(4)AC (N) (M5)
(5)Frame ground (M5 ±)
(6)+Output
(7)-Output
(8)CN2 Connectors
(9)CN1 Connectors
(9)LED for output voltage confirmation (DC\_OK)
(1)LED for fault condition detection (ALARM)
(9)Output 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		Reel: SPUD-001T-P0.5	іст
CN2		F UDF - 12 V-3	or SPUD-002T-P0.5	J.J.I

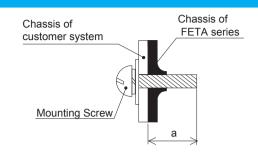
# FETA-series | CO\$EL



### **Assembling and Installation Method**

#### Installation Method

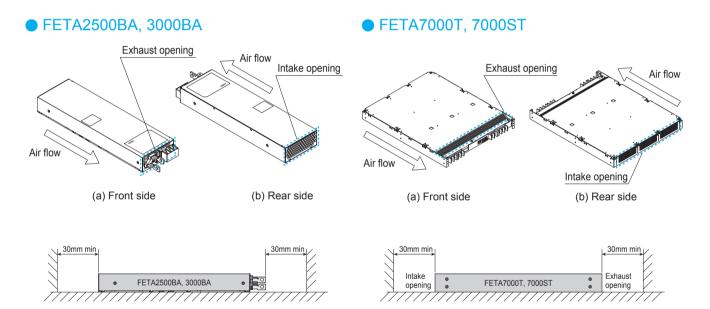
- Screw mounting requires considering the product weight for safety fixtures.
- To keep enough insulation distance between screws and internal components, length of the mounting screw should not exceed recommendation as shown in right figure.



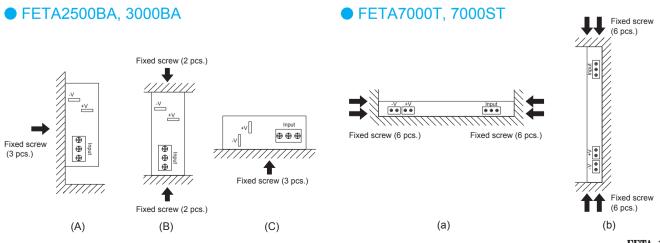
Model	Mounting hole	a (Max penetration length)			
FETA2500BA, 3000BA	Bottom	6mm max			
FE 1A23000A, 30000A	Side	4.5mm max			
FETA7000T, 7000ST	Side	15mm max			

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 afailure.



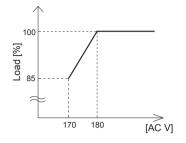
When mounting the power supply with screws, it is recommended that this be done as shown in below figure. If other methods are used, be sure the weight of the power supply is taken into account.



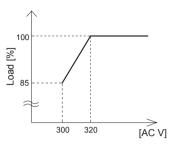
# **COȘEL** | FETA-series

# Derating

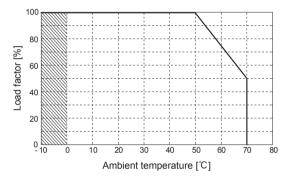
 Input Voltage Derating Curve FETA2500BA, 3000BA, 7000T



# FETA7000ST

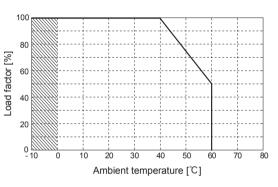


# Ambient Temperature Derating Curve FETA2500BA, FETA3000BA



Specifications for ripple and ripple noise changes in the shadedarea.

# FETA7000T, FETA7000ST



### **Instruction Manuals**

Please see catalog and instructionmanual before you use.

Instruction Manuals 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	
Model						Material	Single sided	Double sided	Series operation	Parallel operation
	Active filter	47	13.8	250V 30A	Relay	FR-4		Yes	Yes	Yes
FETA2500BA	Phase-shift Full-	94								
	bridge converter									
	Active filter	47	16.6	250V 30A	Relay	FR-4		Yes	Yes	Yes
FETA3000BA	Phase-shift Full-	94								
	bridge converter									
	Active filter	47	23.9	250V 30A	Relay	FR-4			Yes	Yes
FETA7000T	Phase-shift Full-	04						Yes		
	bridge converter	94								

\* The value of input current is at ACIN 200V and rated laod.

		Circuit method	Switching frequency [kHz]	Input current [A]	Rated input fuse	Inrush current protection circuit	PCB/Pattern			Series/Parallel operation availability	
	Model						Material	Single sided	Double sided	Series operation	Parallel operation
FETA7000ST		Active filter	47	12.0	250V 30A	Relay	FR-4	Y		Yes	Yes
	FETA7000ST	Phase-shift Full-	94						Yes		
	bridge converter	54									

\* The value of input current is at ACIN 400V and rated load.