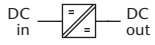


Features

- DC input: 320 - 800 V
- AC input: 3-phase, 47 - 400 Hz
- DC output: 24 / ... / 200 V
- Continuous short circuit protection
- Overvoltage protection
- Thermal shutdown with auto restart
- Industrial grade components
- High efficiency through ZVS topology
- High power density
- 2 modules are pluggable into a 3U, 19" sub-rack
- 3 modules are pluggable into a 5U, 19" sub-rack
- Compact and robust design



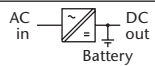
DC / DC Converters

▶ 5 kW					
Input VDC			Output Amps	Output VDC	
320–380 ¹⁾ VDC	320–640 VDC	450–800 VDC		Adj.	Range
C 5184 Z	C 5174 G	C 5174 K	100	24	23– 26
C 5185 Z	C 5175 G	C 5175 K	100	28	26– 30
C 5189 Z	C 5179 G	C 5179 K	91	48	45– 55
C 5186 Z	C 5176 G	C 5176 K	74	60	58– 68
C 5187 Z	C 5177 G	C 5177 K	39	110	100– 130
C 5187 ZJ	C 5177 GJ	C 5177 KJ	25	200	190– 200



AC / DC Power Supplies

▶ 5 kW				
Input VAC, 3-Phase		Output Amps	Output VDC	
3x400 ^{+15%} _{-20%}	3x480 ^{+10%} _{-15%}		Adj.	Range
C 5184 V	C 5194 V	100	24	23– 26
C 5185 V	C 5195 V	100	28	26– 30
C 5189 V	C 5199 V	91	48	45– 55
C 5186 V	C 5196 V	74	60	58– 68
C 5187 V	C 5197 V	39	110	100– 130
C 5187 VJ	C 5197 VJ	25	200	190– 200



Battery Chargers

▶ 5 kW				
Input VAC, 3-Phase		Output Amps	Output VDC	
3x400 ^{+15%} _{-20%}	3x480 ^{+10%} _{-15%}		Nom. Battery Voltage	Range
B 5182 V	B 5192 V	100	24	24– 32
B 5184 V	B 5194 V	80	48	48– 64
B 5186 V	B 5196 V	62	60	60– 80
B 5187 V	B 5197 V	34	110	110– 145

中国区总代理：上海佳舍珀电子科技有限公司

电话：021-50349737 | 手机：13764303579 | 电子邮件：roman.xiao@fitpower.cn | www.fitpower.cn

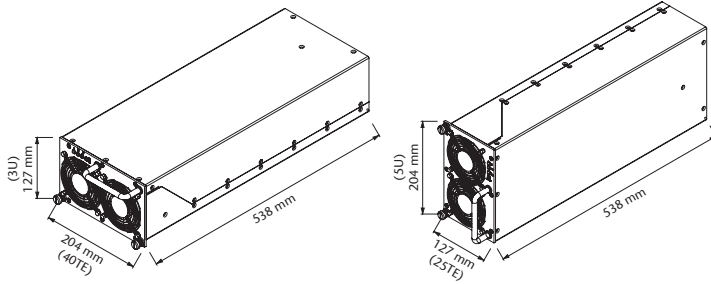
Assistance in table use:

- 1 Select the column for input voltage range.
- 2 Select the row for the appropriate output voltage.
- 3 The intersection of both results in the module required.

For example:

- 1 input voltage = 3 x 400 VAC
- 2 output voltage = 200 VDC @ 25 A
- 3 results in a C 5187 VJ module.

¹⁾ input supply from PFC also suitable



Pluggable module
for 3U sub-rack /
approx. 17 kg

Pluggable module
for 5U sub-rack /
approx. 17 kg



3U, 19" sub-rack with 2 modules

5U, 19" sub-rack with 3 modules

Specifications

Input

Voltage range	.....	narrowing of input voltage range optimizes the efficiency (pls. specify), unit switches off at under- and overvoltage
No-load input power	.....	30 W typical
Switch-on time	.....	0.5 s typical
Inrush current	.....	AC input: limited by thermistor
Hold-up time	.....	AC input: 5 ms typical

Immunity

- ESD	.....	acc. to DIN / EN 61000-4-2 level 3
- Fast transients	.....	acc. to DIN / EN 61000-4-4 level 3
- Surges	.....	acc. to DIN / EN 61000-4-5 level 3

Output

Line regulation ($\pm 10\%$)	.....	0.1 %
Load regulation (10-90 %)	.....	0.2 %
Load transient (10-90-10 %)	.....	6 % typical
Response time to $\pm 1\%$	.....	10 ms typical
Turn-on rise time	.....	Soft-start, 300 ms typical
Ripple	.....	$\leq 1\%$
Overload protection	.....	current limited to 105 - 110 % of I_{nom}
Overvoltage protection	.....	OVP switches off module with automatic return to operation, after 5 seconds, the unit will remain latched off
Remote sense	.....	standard for C series up to 150 V output, up to 10 % of U_{nom} for output < 60 VDC, up to 6 V for output > 60 VDC

General

Efficiency	.....	85 - 95 %
Operating temperature	.....	-20 to +75 °C
Load derating	.....	2.5 % / °C from +55 °C
Storage temperature	.....	-40 to +85 °C
Humidity	.....	up to 95 % RH, non-condensing
Cooling	.....	with fans
Temperature coefficient	.....	0.02 % / °C typical
Safety / Construction	.....	acc. to DIN / EN 60950-1: 2003
Protection category	.....	IP 20, others or NEMA upon request
EMI	.....	acc. to EN 55022, class A, optionally class B
MTBF	.....	approx. 70,000 h @ 40 °C acc. to MIL - HDBK - 217 E (notice 1)
Connector	.....	CombiTac
Marking	.....	CE

Options (details see page 90 – 92)

Input

- Inrush current limiting
- Reverse polarity protection for DC input

Output

- Parallel operation
- Redundant operation (with external decoupling diode)
- Inhibit (remote on / off)

Signals

via open collector or relay contacts

- Power ok (input)
- DC ok (output)
- Sys-reset

Programming

- Output voltage or current via
 - potentiometer (external)
 - analog signal
 - interface RS232 or IEEE488 (external)

Battery charger

- Temperature compensated charging voltage
- Automatic / manual selection of charging characteristic (external)

Mechanics / environment:

- 19" sub-rack (3U or 5U) with terminals / bolts / bars
- Digital V- and A-meter (external)
- Cooling via speed-controlled fans (depending on temperature)
- Increased mechanical strength
- Tropical protection
- Extended temperature range to -40 °C