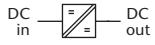




Features

- DC input: 10 - 380 V
- AC input: 115 / 230 V, 47 - 400 Hz
- DC output: 5 / ... / 400 V
- Continuous short circuit protection
- Overvoltage protection with auto restart
- Industrial grade components
- Compact and robust design



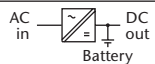
DC / DC Converters

▶ 750 W		▶ 1000 W		▶ 1200 W							
Input VDC										Output VDC	
10-16 VDC	Output Amps	18-36 VDC	Output Amps	36-75 VDC	45-90 VDC	80-160 VDC	160-320 VDC	320-380 ¹⁾ VDC	Output Amps	Adj.	Range
C 1600	80	C 1620	120	C 1630	C 1640	C 1650	C 1670	C 1680 Z	160 ^{2) 3)}	5	4.5- 5.5
C 1601	50	C 1621	76	C 1631	C 1641	C 1651	C 1671	C 1681 Z	95	9	8- 10
C 1602	48	C 1622	66	C 1632	C 1642	C 1652	C 1672	C 1682 Z	82	12	11- 13
C 1603	40	C 1623	50	C 1633	C 1643	C 1653	C 1673	C 1683 Z	67	15	14- 16
C 1604	28	C 1624	36	C 1634	C 1644	C 1654	C 1674	C 1684 Z	46	24	23- 26
C 1605	26	C 1625	30	C 1635	C 1645	C 1655	C 1675	C 1685 Z	40	28	26- 30
C 1609	14	C 1629	16	C 1639	C 1649	C 1659	C 1679	C 1689 Z	20	48	45- 55
C 1606	11	C 1626	13	C 1636	C 1646	C 1656	C 1676	C 1686 Z	17	60	58- 68
C 1607	6	C 1627	6.6	C 1637	C 1647	C 1657	C 1677	C 1687 Z	9	110	100- 130
C 1607 J	3.5	C 1627 J	5	C 1637 J	C 1647 J	C 1657 J	C 1677 J	C 1687 ZJ	6	200	190- 200
C 1608	3	C 1628	3.2	C 1638	C 1648	C 1658	C 1678	C 1688 Z	5	220	200- 250
C 1608 J	1.8	C 1628 J	2.5	C 1638 J	C 1648 J	C 1658 J	C 1678 J	C 1688 ZJ	3	400	380- 400



AC / DC Power Supplies

▶ 1200 W					
Input VAC, 1-Phase				Output VDC	
115 ±20%	230 ^{+15%} _{-20%}	115 ±20% / 230 ^{+15%} _{-20%}	Output Amps	Adj.	Range
C 1660	C 1680	C 1690	160 ^{2) 3)}	5	4.5- 5.5
C 1661	C 1681	C 1691	95	9	8- 10
C 1662	C 1682	C 1692	82	12	11- 13
C 1663	C 1683	C 1693	67	15	14- 16
C 1664	C 1684	C 1694	46	24	23- 26
C 1665	C 1685	C 1695	40	28	26- 30
C 1669	C 1689	C 1699	20	48	45- 55
C 1666	C 1686	C 1696	17	60	58- 68
C 1667	C 1687	C 1697	9	110	100- 130
C 1667 J	C 1687 J	C 1697 J	6	200	190- 200
C 1668	C 1688	C 1698	5	220	200- 250
C 1668 J	C 1688 J	C 1698 J	3	400	380- 400



Battery Chargers

▶ 1200 W					
Input VAC, 1-Phase				Output VDC	
115 ±20%	230 ^{+15%} _{-20%}	115 ±20% / 230 ^{+15%} _{-20%}	Output Amps	Nom. Battery Voltage	Range
B 1661	B 1681	B 1691	67	12	12- 16
B 1662	B 1682	B 1692	38	24	24- 32
B 1664	B 1684	B 1694	18	48	48- 64
B 1666	B 1686	B 1696	14	60	60- 80
B 1667	B 1687	B 1697	8	110	110- 145
B 1668	B 1688	B 1698	4	220	220- 290

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

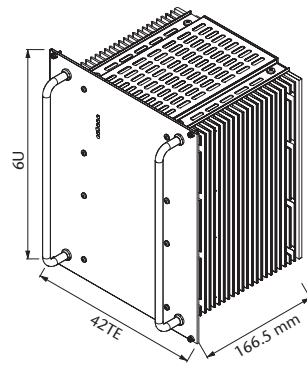
Assistance in table use:

- 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.

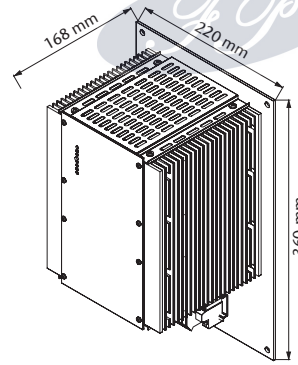
For example:

- 1 input voltage = 12 VDC
- 2 output voltage = 110 VDC @ 6 A
- 3 results in a C 1607 module.

- 1) input supply from PFC also suitable
- 2) external fan recommended
- 3) suited for wall-mount, alternatives upon request



Eurocassette / approx. 6.0 kg
(pluggable module for 19" sub-rack)



Wall mount / approx. 8.5 kg

Specifications

Input

Voltage range see table, unit switches off at under- and overvoltage
 No-load input power. 10 - 12 W
 Switch-on time 500 ms
 Inrush current AC input: limited by thermistor
 Hold-up time AC input: 10 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 $\pm 1\%$ 2 - 3 ms
 Turn-on rise time Soft-start, 100 ms typical
 Ripple. $\leq 1\% + 30\text{ mV}_{\text{p-p}}$
 Overload protection current limited to 105 - 110 % of I_{nom}
 Overvoltage protection. OVP switches off module with automatic return to operation
 Remote sense. standard for C series, up to 10 % of U_{nom} for output < 60 VDC, up to 6 V for output > 60 VDC

General

Efficiency 70 - 90 %
 Operating temperature. -20 to $+75\text{ }^{\circ}\text{C}$
 Load derating 2.5 % / $^{\circ}\text{C}$ from $+55\text{ }^{\circ}\text{C}$
 Storage temperature -40 to $+85\text{ }^{\circ}\text{C}$
 Humidity up to 95 % RH, non-condensing
 Cooling natural convection
 Temperature coefficient 0.02 % / $^{\circ}\text{C}$ 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. 100,000 h @ $40\text{ }^{\circ}\text{C}$ acc. to MIL - HDBK - 217 E (notice 1)
 Connector for eurocassette - std. design H15 (details see page 103)
 Marking CE

Options (details see page 90 – 92)

Input

- Inrush current limiting for DC input
- Reverse polarity protection for DC input
- Autoranging for 115 / 230 VAC input

Output

- Parallel operation
- Redundant operation
- 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
 - analog signal
 - interface card RS232 or IEEE488 (external)

Battery charger

- Temperature compensated charging voltage
- Automatic / manual selection of charging characteristic

Monitoring

- Input / output voltage or current via
 - analog signal
 - interface card RS232 or IEEE488 (external)

Mechanics / environment:

- 19" sub-rack for eurocassette, refer to page 93
- Wall mount
- Increased mechanical strength
- Tropical protection
- Extended temperature range to $-40\text{ }^{\circ}\text{C}$