Features

- DC input: 18 - 380 V
- AC input: 1 or 3-phase, 47 - 400 Hz
- DC output: 5 / ... / 250 V
- Continuous short circuit protection
- Overvoltage protection with auto restart
- Industrial grade components
- Compact and robust design

DC / DC Converters

► 650 W	► 800 W								
Input VDC								Output VDC	
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 2620	85 [2]	C 2630	C 2640	C 2650	C 2670	C 2680 Z	100 [2]	5	4.5– 5.5
C 2621	65	C 2631	C 2641	C 2651	C 2671	C 2681 Z	75	9	8– 10
C 2622	50	C 2632	C 2642	C 2652	C 2672	C 2682 Z	60	12	11– 13
C 2623	42	C 2633	C 2643	C 2653	C 2673	C 2683 Z	50	15	14– 16
C 2624	25	C 2634	C 2644	C 2654	C 2674	C 2684 Z	30	24	23– 26
C 2625	22	C 2635	C 2645	C 2655	C 2675	C 2685 Z	27	28	26– 30
C 2629	12	C 2639	C 2649	C 2659	C 2679	C 2689 Z	15	48	45– 55
C 2626	10	C 2636	C 2646	C 2656	C 2676	C 2686 Z	12	60	58– 68
C 2627	5	C 2637	C 2647	C 2657	C 2677	C 2687 Z	6.5	110	100– 130
C 2628	2.5	C 2638	C 2648	C 2658	C 2678	C 2688 Z	3.2	220	200– 250

AC / DC Power Supplies

► 800 W						
Input VAC, 1-Phase			Input VAC, 3-Phase	Output Amps	Output VDC	
115 ±20%	230 +15% −20%	115 ±20% / 230 +15% −20%	3x200 +15% −20%		Adj.	Range
C 2660	C 2680	C 2690	C 2660 V	100 [2]	5	4.5– 5.5
C 2661	C 2681	C 2691	C 2661 V	75	9	8– 10
C 2662	C 2682	C 2692	C 2662 V	60	12	11– 13
C 2663	C 2683	C 2693	C 2663 V	50	15	14– 16
C 2664	C 2684	C 2694	C 2664 V	30	24	23– 26
C 2665	C 2685	C 2695	C 2665 V	27	28	26– 30
C 2669	C 2689	C 2699	C 2669 V	15	48	45– 55
C 2666	C 2686	C 2696	C 2666 V	12	60	58– 68
C 2667	C 2687	C 2697	C 2667 V	6.5	110	100– 130
C 2668	C 2688	C 2698	C 2668 V	3.2	220	200– 250

Battery Chargers

► 800 W						
Input VAC, 1-Phase			Input VAC, 3-Phase	Output Amps	Output VDC	
115 ±20%	230 +15% −20%	115 ±20% / 230 +15% −20%	3x200 +15% −20%		Nom. Battery Voltage	Range
B 2661	B 2681	B 2691	B 2661 V	50	12	12– 16
B 2662	B 2682	B 2692	B 2662 V	25	24	24– 32
B 2664	B 2684	B 2694	B 2664 V	13	48	48– 64
B 2666	B 2686	B 2696	B 2666 V	10	60	60– 80
B 2667	B 2687	B 2697	B 2667 V	6	110	110– 145
B 2668	B 2688	B 2698	B 2668 V	3	220	220– 290

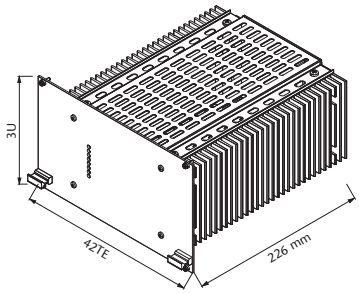
Assistance in table use:

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.

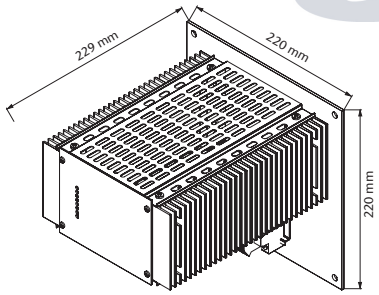
For example:

1. input voltage = 115 VAC
2. output voltage = 220 VDC @ 3.2 A
3. results in a C 2668 module.

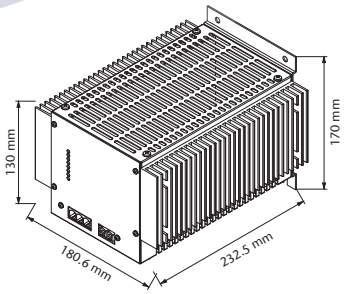
[1] input supply from PFC also suitable
[2] external fan recommended



Eurocassette / approx. 4.0 kg
(pluggable module for 19" sub-rack)



Wall mount / approx. 6.0 kg



NEW

Chassis mount / approx. 4.6 kg

Specifications

Input

Voltage range . . . . . see table, unit switches off at under- and overvoltage
No-load input power. . . . . 5 - 6 W
Switch-on time . . . . . 500 ms typical
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 (±10 %) . . . . . 0.1 %
Load regulation (10 - 90 %) . . . 0.2 %
Load transient (10-90-10 %) . . 6 % typical
Response time to ±1 % . . . . . 2 - 3 ms
Turn-on rise time . . . . . Soft-start, 100 ms typical
Ripple. . . . . ≤ 1 % + 30 mV_{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 - 92 %
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 . . . . . natural convection
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. 120,000 h @ 40°C acc. to MIL - HDBK - 217 E (notice 1)
Connector for eurocassette - std. design . . . . . H 15 (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 (external)

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
- Chassis mount
- Increased mechanical strength
- Tropical protection
- Extended temperature range to –40 °C