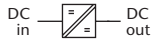


**Features**

- DC input: 80 - 800 V
- AC input: 3-phase, 47 - 400 Hz
- DC output: 5 / ... / 400 V
- Continuous short circuit protection
- Overvoltage protection
- Thermal shutdown with auto restart
- Industrial grade components
- High efficiency through ZVS topology
- Compact and robust design



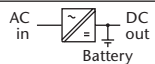
**DC / DC Converters**

▶ 4 kW							▶ 5 kW		
Input VDC							Output VDC		
80–160 VDC	Output Amps	160–320 VDC	320–380 <sup>1)</sup> VDC	320–640 VDC	450–800 VDC	Output Amps	Adj.	Range	
C 5250	350	C 5270	C 5280 Z	C 5270 G	C 5270 K	350	5	4.5– 5.5	
C 5251	350	C 5271	C 5281 Z	C 5271 G	C 5271 K	350	9	8– 10	
C 5252	305	C 5272	C 5282 Z	C 5272 G	C 5272 K	350	12	11– 13	
C 5253	250	C 5273	C 5283 Z	C 5273 G	C 5273 K	310	15	14– 16	
C 5254	154	C 5274	C 5284 Z	C 5274 G	C 5274 K	192	24	23– 26	
C 5255	133	C 5275	C 5285 Z	C 5275 G	C 5275 K	167	28	26– 30	
C 5259	73	C 5279	C 5289 Z	C 5279 G	C 5279 K	91	48	45– 55	
C 5256	59	C 5276	C 5286 Z	C 5276 G	C 5276 K	74	60	58– 68	
C 5257	31	C 5277	C 5287 Z	C 5277 G	C 5277 K	39	110	100– 130	
C 5257 J	20	C 5277 J	C 5287 ZJ	C 5277 GJ	C 5277 KJ	25	200	190–200	
C 5258	16	C 5278	C 5288 Z	C 5278 G	C 5278 K	20	220	200–250	
C 5258 J	10	C 5278 J	C 5288 ZJ	C 5278 GJ	C 5278 KJ	12.5	400	380–400	



**AC / DC Power Supplies**

▶ 5 kW					
Input VAC, 3-Phase			Output Amps	Output VDC	
3x200 <sup>+15% -20%</sup>	3x400 <sup>+15% -20%</sup>	3x480 <sup>+10% -15%</sup>		Adj.	Range
C 5260 V	C 5280 V	C 5290 V	350	5	4.5– 5.5
C 5261 V	C 5281 V	C 5291 V	350	9	8– 10
C 5262 V	C 5282 V	C 5292 V	350	12	11– 13
C 5263 V	C 5283 V	C 5293 V	310	15	14– 16
C 5264 V	C 5284 V	C 5294 V	192	24	23– 26
C 5265 V	C 5285 V	C 5295 V	167	28	26– 30
C 5269 V	C 5289 V	C 5299 V	91	48	45– 55
C 5266 V	C 5286 V	C 5296 V	74	60	58– 68
C 5267 V	C 5287 V	C 5297 V	39	110	100– 130
C 5267 VJ	C 5287 VJ	C 5297 VJ	25	200	190–200
C 5268 V	C 5288 V	C 5298 V	20	220	200–250
C 5268 VJ	C 5288 VJ	C 5298 VJ	12.5	400	380–400



**Battery Chargers**

▶ 5 kW					
Input VAC, 3-Phase			Output Amps	Output VDC	
3x200 <sup>+15% -20%</sup>	3x400 <sup>+15% -20%</sup>	3x480 <sup>+10% -15%</sup>		Nom. Battery Voltage	Range
B 5261 V	B 5281 V	B 5291 V	310	12	12– 16
B 5262 V	B 5282 V	B 5292 V	160	24	24– 32
B 5264 V	B 5284 V	B 5294 V	80	48	48– 64
B 5266 V	B 5286 V	B 5296 V	62	60	60– 80
B 5267 V	B 5287 V	B 5297 V	34	110	110– 145
B 5268 V	B 5288 V	B 5298 V	17	220	220–290

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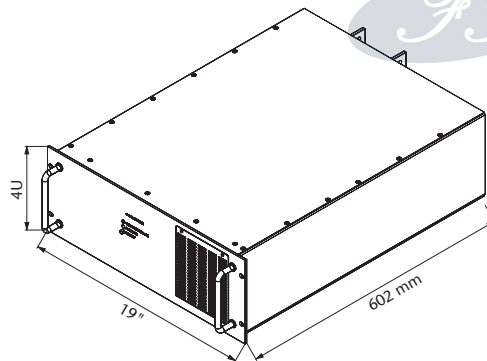
**Assistance in table use:**

- 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 5287 VJ module.

<sup>1)</sup> input supply from PFC also suitable



19" Plug-in module / 40.0 - 55.0 kg

## 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	$\leq 1\% + 30\text{ mV}_{\text{p-p}}$
Overload protection	current limited to 105 - 110 % of $I_{\text{nom}}$
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 $U_{\text{nom}}$ for output < 60 VDC, up to 6 V for output > 60 VDC

### General

Efficiency	80 - 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	terminals / bolts / bars
Marking	CE

## Options (details see page 90 – 92)

### Input

- Inrush current limiting
- Reverse polarity protection for DC input

### Output

- Parallel operation
- Redundant operation
- Inhibit (remote on / off)
- Reducing of current limiting at high ambient temperature

### 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 RS232 or IEEE488

### Battery charger

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

### Monitoring

- Input / output voltage or current via
  - analog signal
  - interface RS232 or IEEE488

### Mechanics / environment:

- Digital V- and A-meter
- Cooling via temperature-controlled fans
- Increased mechanical strength
- Tropical protection
- Extended temperature range to -40 °C