

Features

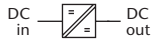
- DC input: 320 - 800 V
- AC input: 3-phase, 47 - 63 Hz
- DC output: 48 / ... / 800 V
- Continuous short circuit protection
- Overvoltage protection
- Thermal shutdown with auto restart
- Industrial grade components
- High efficiency through ZVS topology
- High power density
- Compact and robust design



front view

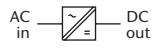


rear view



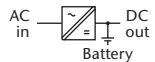
DC / DC Converters

▶ 30 KW				
Input VDC			Output VDC	
320–640 ¹⁾ VDC	450–800 VDC	Output Amps	Adj.	Range
CW 6679 G	CW 6679 K	450	48	45– 55
CW 6676 G	CW 6676 K	442	60	58– 68
CW 6677 G	CW 6677 K	231	110	100– 130
CW 6677 GJ	CW 6677 KJ	150	200	190–200
CW 6678 G	CW 6678 K	120	220	200–250
CW 6678 GJ	CW 6678 KJ	75	400	380–400
CW 6677 GH	CW 6677 KH	50	tba ²⁾	570–600
CW 6678 GH	CW 6678 KH	38	tba ²⁾	760–800



AC / DC Power Supplies

▶ 30 KW				
Input VAC, 3-Phase		Output Amps	Output VDC	
3x400 ^{+15%} _{-20%}	3x480 ^{+10%} _{-15%}		Adj.	Range
CW 6689 V	CW 6699 V	450	48	45– 55
CW 6686 V	CW 6696 V	442	60	58– 68
CW 6687 V	CW 6697 V	231	110	100– 130
CW 6687 VJ	CW 6697 VJ	150	200	190–200
CW 6688 V	CW 6698 V	120	220	200–250
CW 6688 VJ	CW 6698 VJ	75	400	380–400
CW 6687 VH	CW 6697 VH	50	tba ²⁾	570–600
CW 6688 VH	CW 6698 VH	38	tba ²⁾	760–800



Battery Chargers

▶ 30 KW				
Input VAC, 3-Phase		Output Amps	Output VDC	
3x400 ^{+15%} _{-20%}	3x480 ^{+10%} _{-15%}		Nom. Battery Voltage	Range
BW 6684 V	BW 6694 V	386	48	48– 64
BW 6686 V	BW 6696 V	375	60	60– 80
BW 6687 V	BW 6697 V	208	110	110– 145
BW 6688 V	BW 6698 V	104	220	220–290

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Assistance in table use:

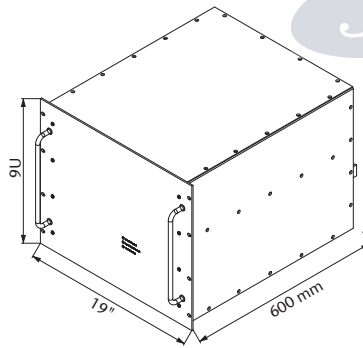
- 1 Select the column for input voltage range.
- 2 Select the row for the appropriate output voltage.
- 3 The intersection of both results in the module required.

For example:

- 1 input voltage = 3 x 400 VAC
- 2 output voltage = 220 VDC @ 120 A
- 3 results in a CW 6688 V module.

¹⁾ for input voltage < 400 VDC the output power needs to be reduced by 20%

²⁾ tba = to be advised



19" Plug-in module / approx. 106 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	< 1 s
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	0.5 % rms
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 CW series up to 150 V output, compensation up to 6 V

General

Efficiency	90 - 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 water
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 (see photo)
- Tropical protection
- Extended temperature range to -40 °C