

Euro Series

INDUSTRIAL HIGH POWER CHARGER

FEATURES

- **Continuous short circuit protection.**
- **Overvoltage protection.**
- **Thermal shutdown with auto restart.**
- **Industrial grade components.**
- **High efficiency through ZVS topology.**
- **Compact and robust design.**
- **3RU and 6RU configuration.**



Specifications

INPUT

Voltage	See table.
Switch-on time	1.0s typical.
Immunity	
(ESD)	acc. to DIN / EN 61000-4-2 level 3
(Fast transient)	acc. to DIN / EN 61000-4-4 level 3
(Surges)	acc. to DIN / EN 61000-4-5 level 3

OUTPUT

Voltage	See table.
Current	See table.
Line regulation	0.1%. ($\pm 10\%$)
Load regulation	0.2%. (10-90%)
Load transient	6% typical. (10-90-10%)
Response time to $\pm 1\%$	10ms typical.
Turn-on rise time	Soft start, 300ms 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 C series up to 150V output, Compensation up to 6V.
Efficiency	70-95%

ENVIRONMENTAL

Operating temperature	-20°C to 75°C.
Storage temperature	-40°C to 85°C.
Humidity	Up to 95% RH, non condensing.
Temperature coefficient	0.02% / °C typical.

GENERAL

Cooling	Natural convection / force air cooling.
MTBF	Approx. 10,000-70,000Hrs @ 40°C. acc. to MIL-HDBK-217E (notice 1)

STANDARDS

Safety	acc. to DIN / EN 60950-1: 2003.
Protection category	IP20, others or NEMA upon request.
EMI standards	acc. to EN55022, class A, optionally class B.
Marking	CE
C-tick	AS/NZS CISPR11: 2004, Class A

Options

INPUT

Option “i” (inrush current limiting):

A thermistor is connected in series with the input lines which changes its resistance from high to low when it gets hot. It does not reduce the current surge if the input power is interrupted for a short period of time not allowing the thermistor to cool down. Thermistor are fitted as standard to all mains input models except for 1-phase input of models > 2.5kW. Thermistors are available up to 45A. For higher input current an electronic inrush current limitation can be offered.

Option “ie” electronic inrush current limiting: An electronic circuit limits the inrush current.

Option “sd” (series diode): A series diode protects the module against input voltage of wrong polarity (additional power losses).

Option “ad” (anti-parallel diode): To avoid the power losses of a series diode a diode is provided with opposite polarity in parallel to the input blowing an internal or external fuse if the module is connected to a supply with wrong polarity.

Option “au” (auto-ranging): For standard dual AC input models the range of 115/230Vac is to be selected by connecting the input line to different pins on the connector. With auto-ranging the unit senses the input voltage and provides automatically the correct connection.

Option “p” (power fail): A signal (logic or relay) is given if the input voltage (AC or DC) drops below the specified limit. In AC input units we sense the rectified input voltage so that a power fail alarm can be avoided if at light loads mains power returns before the input capacitors are substantially discharged.

Option “r” (relay): A relay instead of a logic signal is provided for failure indication.

OUTPUT

Option “dd” (decoupling diode): For redundant operation the outputs of two or more units are paralleled behind de-coupling diodes so that an internal fault of one module does not affect the operation of the others. These diodes cause power losses.

Option “cs” (active current sharing): An additional control circuit provides active current sharing via an interconnecting wire between converters that operate in parallel. Active current sharing should be used for multiple units operating in parallel.

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Option “csi” (current sharing interrupt): Option “csi” will effect the removal of the “cs” signal. Should there be an instance where a unit is not supplying the load, then the effect of its “cs” signal is removed, and the load voltage is unaffected by this condition.

Option “h1” (inhibit): A terminal is connected to the negative input line also shuts off the converter. This can also be used in conjunction with a thermal trip which shuts the unit down.

Option “h2” (inhibit): Operation of the unit is inhibited if a voltage signal (5V/10mA) is applied in reference to the negative line of the (main) output.

Option “rco” (reducing current limiting at over temperature): A circuit reduces the current limiting level at higher temperature (to be specified).

Option “d” (DC-ok, one output): A logic signal is given if the output voltage (main output in multi-output systems) is below the specified limit.

Option “m” (DC-ok, all outputs): In multi-output systems a logic signal is provided if the voltage of any output is below the specified limit.

Option “ac” (AC ok): A logic signal connected to relay contacts is given if the output voltage of an inverter is below the specified limit.

Option “y” (sys-reset): This logic signal is a combination of power fail and DC-ok as specified for VME systems.

Option “r” (relay):
A relay instead of a logic signal is provided for failure indication.

Programming & Monitoring

MONITORING SERIES 200-5800, 6600

Of output voltage from 0 to 100%	By external signal, 0-10Vdc	mu1
	By external signal, 4-20mA	mu2
Of output current from 0 to 100%	By external signal, 0-10Vdc	mi1
	By external signal, 4-20mA	mi2
Isolating amplifier for programming		iso
Programming via interface RS232 or IEEE488		

PROGRAMMING SERIES 200-5800, 6600

Of output voltage from 0 to 100%	By external signal, 0-10Vdc	eu1
	By external signal, 4-20mA	eu2
	By 270° potentiometer	eu3
	By 10 turn potentiometer	eu4
Of output current from 0 to 100%	By external signal, 0-10Vdc	ei1
	By external signal, 4-20mA	ei2
	By 270° potentiometer	ei3
	By 10 turn potentiometer	ei4
Isolating amplifier for programming		iso
Programming via interface RS232 or IEEE488		

CHARGER PROGRAMMING (ALL SERIES)

Temperature compensated charging voltage(sensor not included)		tc
Temperature sensor	Not inter changeable due to fixed resistor values	ts1
	Interchangeable, IC controlled	ts2
Automatic selection of charging characteristic (float / equalize charge) with timer		ch1
Additionally: Manual selection of charging characteristic		ch2
Additionally: Boost charge operation (manually activated with time delayed return to normal operation)		ch3

PROGRAMMING / MONITORING

Programming of output voltage and current from 0-100% including isolation	By external signal, 0-10Vdc	e1
	By external signal, 4-20mA	e2
Programming of output voltage from 0-100%	By 270° potentiometer	eu3
	By 10 turn potentiometer	eu4
Programming of output current from 0-100%	By 270° potentiometer	ei3
	By 10 turn potentiometer	ei4
Monitoring of output voltage and current from 0-100% including isolation	By external signal, 0-10Vdc	m1
	By external signal, 4-20mA	m2
Remote on/off programming and monitoring of output voltage and current from 0-100% including isolation	By external signal, 0-10Vdc	em1
	By external signal, 4-20mA	em2
	Via RS232 and IEEE488	em3
Improved tolerance	Between reference (external signal) and measured value / between measured value and displayed signal: voltage 0.2% and current 0.5%.	tol

ENVIRONMENT

Option “t” (tropical protection): The unit is given additional protection by a heavy coat of varnish on the printed circuit board(s) and components.

Option “c” (extended temperature range): The circuit is designed and test to for operation at an ambient temperature as low as -40 °C.

Option “ms” (increased mechanical strength): Screws are secured by Loctite and heavy components are fastened by ties and/or glue. Modules with the “ms” option meet the standard EN61373 regarding shock and vibration.

MECHANICS

Standard mounting “Eurocassette”: Pluggable module for 19” subrack, 84TE width.

Option “w” (wall mounting): Module is screwed against a mounting plate for installation in a cabinet. The load connections are typically a terminal block.

Option “cha” (chassis mount): Module is designed for installation to a structure or within cabinet. Screw type mating connectors are supplied with the module.

Option “din” (DIN rail mount): Module is designed for DIN rail mounting to a structure or within Cabinet. Screw type mating connectors are supplied with the module.

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50W 3RU 10TE

INPUT VAC, 1 PHASE			OUTPUT VDC		
115 ±20%	230 (+15%, -20%)	115 ±20%/230 (+15%, -20%)	OUTPUT AMPS	NOM. BATTERY VOLTAGE	RANGE
B 261	B 281	B 291	3.2	12	12-16
B 262	B 282	B 292	1.6	24	24-32
B 264	B 284	B 294	0.8	48	48-64
B 266	B 286	B 296	0.7	60	60-80
B 267	B 287	B 297	0.36	110	110-145
B 268	B 288	B 298	0.18	220	220-290

150W PFC 3RU 10TE

INPUT VAC, 1 PHASE		OUTPUT VDC	
100-240 ±10%	OUTPUT AMPS	NOM. BATTERY VOLTAGE	RANGE
BP 261	10	12	12-16
BP 262	5	24	24-32
BP 264	2.6	48	48-64
BP 266	2	60	60-80
BP 267	1.1	110	110-145
BP 268	0.55	220	220-290

150W 3RU 14TE

INPUT VAC, 1 PHASE			OUTPUT VDC		
115 ±20%	230 (+15%, -20%)	115 ±20%/230 (+15%, -20%)	OUTPUT AMPS	NOM. BATTERY VOLTAGE	RANGE
B 361	B 381	B 391	10	12	12-16
B 362	B 382	B 392	5	24	24-32
B 364	B 384	B 394	2.5	48	48-64
B 366	B 386	B 396	2	60	60-80
B 367	B 387	B 397	1.1	110	110-145
B 368	B 388	B 398	0.5	220	220-290

200W 6RU 10TE

INPUT VAC, 1 PHASE			OUTPUT VDC		
115 ±20%	230 (+15%, -20%)	115 ±20%/230 (+15%, -20%)	OUTPUT AMPS	NOM. BATTERY VOLTAGE	RANGE
B 1261	B 1281	B 1291	12	12	12-16
B 1262	B 1282	B 1292	6	24	24-32
B 1264	B 1284	B 1294	3	48	48-64
B 1266	B 1286	B 1296	2.6	60	60-80
B 1267	B 1287	B 1297	1.4	110	110-145
B 1268	B 1288	B 1298	0.7	220	220-290

250W 3RU 21TE

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 561	B 581	B 591	B 591 V	16	12	12-16
B 562	B 582	B 592	B 592 V	8	24	24-32
B 564	B 584	B 594	B 594 V	4	48	48-64
B 566	B 586	B 596	B 596 V	3.2	60	60-80
B 567	B 587	B 597	B 597 V	2	110	110-145
B 568	B 588	B 598	B 598 V	1	220	220-290

400W 3RU 21TE

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 2561	B 2581	B 2591	B 2561 V	23	12	12-16
B 2562	B 2582	B 2592	B 2562 V	13	24	24-32
B 2564	B 2584	B 2594	B 2564 V	6.2	48	48-64
B 2566	B 2586	B 2596	B 2566 V	5.1	60	60-80
B 2567	B 2587	B 2597	B 2567 V	2.8	110	110-145
B 2568	B 2588	B 2598	B 2568 V	1.4	220	220-290

500W 3RU 42TE

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 661	B 681	B 691	B 661 V	32	12	12-16
B 662	B 682	B 692	B 662 V	16	24	24-32
B 664	B 684	B 694	B 664 V	8	48	48-64
B 666	B 686	B 696	B 666 V	6.4	60	60-80
B 667	B 687	B 697	B 667 V	3.5	110	110-145
B 668	B 688	B 698	B 668 V	1.8	220	220-290

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600W 6RU 21TE

INPUT VAC, 1 PHASE		INPUT VAC, 3 PHASE		OUTPUT AMPS	OUTPUT VDC	
115 ±20%	230 (+15%, -20%)	115 ±20%/230 (+15%, -20%)	3 X 200 (+15%, -20%)		NOM. BATTERY VOLTAGE	RANGE
B 1561	B 1581	B 1591	B 1561 V	34	12	12-16
B 1562	B 1582	B 1592	B 1562 V	18	24	24-32
B 1564	B 1584	B 1594	B 1564 V	9	48	48-64
B 1566	B 1586	B 1596	B 1566 V	7.5	60	60-80
B 1567	B 1587	B 1597	B 1567 V	4	110	110-145
B 1568	B 1588	B 1598	B 1568 V	2	220	220-290

600W 3RU 28TE

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 2761	B 2781	B 2791	B 2761 V	34	12	12-16
B 2762	B 2782	B 2792	B 2762 V	20	24	24-32
B 2764	B 2784	B 2794	B 2764 V	10	48	48-64
B 2766	B 2786	B 2796	B 2766 V	8	60	60-80
B 2767	B 2787	B 2797	B 2767 V	4.4	110	110-145
B 2768	B 2788	B 2798	B 2768 V	2.2	220	220-290

800W 3RU 42TE

INPUT VAC, 1 PHASE		INPUT VAC, 3 PHASE		OUTPUT AMPS	OUTPUT VDC	
115 ±20%	230 (+15%, -20%)	115 ±20%/230 (+15%, -20%)	3 X 200 (+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

850W 6RU 21TE

INPUT VAC, 1 PHASE		INPUT VAC, 3 PHASE				OUTPUT AMPS	OUTPUT VDC	
115 ±20%	230 (+15%, -20%)	115 ±20%/230 (+15%, -20%)	3 X 200 (+15%, -20%)	3 X 400 (+15%, -20%)	3 X 480 (+10%, -15%)		NOM. BATTERY VOLTAGE	RANGE
B 3561	B 3581	B 3591	B 3561 V	B 3581 V	B 3591 V	50	12	12-16
B 3562	B 3582	B 3592	B 3562 V	B 3582 V	B 3592 V	28	24	24-32
B 3564	B 3584	B 3594	B 3564 V	B 3584 V	B 3594 V	15	48	48-64
B 3566	B 3586	B 3596	B 3566 V	B 3586 V	B 3596 V	12	60	60-80
B 3567	B 3587	B 3597	B 3567 V	B 3587 V	B 3597 V	7	110	110-145
B 3568	B 3588	B 3598	B 3568 V	B 3588 V	B 3598 V	3.5	220	220-290

1200W 6RU 42TE

INPUT VAC, 1 PHASE			OUTPUT AMPS	OUTPUT VDC	
115 ±20%	230 (+15%, -20%)	115 ±20%/230 (+15%, -20%)		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

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1000W 6RU 28TE

INPUT VAC, 1 PHASE				INPUT VAC, 3 PHASE				OUTPUT AMPS	OUTPUT VDC	
100-240 ±10%, PFC	OUTPUT AMPS	115 ±20%	230 (+15%, -20%)	115 ±20% (+15%, -20%)	3 X 200 (+15%, -20%)	3 X 400 (+15%, -20%)	3 X 480 (+10%, -15%)		NOM. BATTERY VOLTAGE	RANGE
BP 3791	65	B 3761	B 3781	B 3791	B 3761 V	B 3781 V	B 3791 V	75	12	12-16
BP 3792	32	B 3762	B 3782	B 3792	B 3762 V	B 3782 V	B 3792 V	40	24	24-32
BP 3794	16	B 3764	B 3784	B 3794	B 3764 V	B 3784 V	B 3794 V	22	48	48-64
BP 3796	12	B 3766	B 3786	B 3796	B 3766 V	B 3786 V	B 3796 V	18	60	60-80
BP 3797	8	B 3767	B 3787	B 3797	B 3767 V	B 3787 V	B 3797 V	10	110	110-145
BP 3798	4	B 3768	B 3788	B 3798	B 3768 V	B 3788 V	B 3798 V	5	220	220-290

1600W 6RU 21TE

INPUT VAC, 1 PHASE			INPUT VAC, 3 PHASE			OUTPUT AMPS	OUTPUT VDC	
115 ±20%	230 (+15%, -20%)	115 ±20% (+15%, -20%)	3 X 200 (+15%, -20%)	3 X 400 (+15%, -20%)	3 X 480 (+10%, -15%)		NOM. BATTERY VOLTAGE	RANGE
B 4561	B 4581	B 4591	B 4561 V	B 4581 V	B 4591 V	80	12	12-16
B 4562	B 4582	B 4592	B 4562 V	B 4582 V	B 4592 V	46	24	24-32
B 4564	B 4584	B 4594	B 4564 V	B 4584 V	B 4594 V	25	48	48-64
B 4566	B 4586	B 4596	B 4566 V	B 4586 V	B 4596 V	20	60	60-80
B 4567	B 4587	B 4597	B 4567 V	B 4587 V	B 4597 V	12	110	110-145
B 4568	B 4588	B 4598	B 4568 V	B 4588 V	B 4598 V	6	220	220-290

1700W 6RU 42TE

INPUT VAC, 1 PHASE			INPUT VAC, 3 PHASE			OUTPUT AMPS	OUTPUT VDC	
115 ±20%	230 (+15%, -20%)	115 ±20% (+15%, -20%)	3 X 200 (+15%, -20%)	3 X 400 (+15%, -20%)	3 X 480 (+10%, -15%)		NOM. BATTERY VOLTAGE	RANGE
B 3661	B 3681	B 3691	B 3661 V	B 3681 V	B 3691 V	100	12	12-16
B 3662	B 3682	B 3692	B 3662 V	B 3682 V	B 3692 V	55	24	24-32
B 3664	B 3684	B 3694	B 3664 V	B 3684 V	B 3694 V	30	48	48-64
B 3666	B 3686	B 3696	B 3666 V	B 3686 V	B 3696 V	24	60	60-80
B 3667	B 3687	B 3697	B 3667 V	B 3687 V	B 3697 V	14	110	110-145
B 3668	B 3688	B 3698	B 3668 V	B 3688 V	B 3698 V	7	220	220-290

1700W, 6RU 28TE

2500W 6RU 28TE

INPUT VAC, 1 PHASE				INPUT VAC, 3 PHASE				OUTPUT AMPS	OUTPUT VDC	
100-240 ±10%, PFC	OUTPUT AMPS	115 ±20%	230 (+15%, -20%)	115 ±20% (+15%, -20%)	3 X 200 (+15%, -20%)	3 X 400 (+15%, -20%)	3 X 480 (+10%, -15%)		NOM. BATTERY VOLTAGE	RANGE
BP 4791	100	B 4761	B 4781	B 4791	B 4761 V	B 4781 V	B 4791 V	110	12	12-16
BP 4792	56	B 4762	B 4782	B 4792	B 4762 V	B 4782 V	B 4792 V	70	24	24-32
BP 4794	28	B 4764	B 4784	B 4794	B 4764 V	B 4784 V	B 4794 V	35	48	48-64
BP 4796	22	B 4766	B 4786	B 4796	B 4766 V	B 4786 V	B 4796 V	30	60	60-80
BP 4797	12	B 4767	B 4787	B 4797	B 4767 V	B 4787 V	B 4797 V	18	110	110-145
BP 4798	6	B 4768	B 4788	B 4798	B 4768 V	B 4788 V	B 4798 V	9	220	220-290

2500W 6RU 56TE

INPUT VAC, 1 PHASE			INPUT VAC, 3 PHASE			OUTPUT AMPS	OUTPUT VDC	
115 ±20%	230 (+15%, -20%)	115 ±20% (+15%, -20%)	3 X 200 (+15%, -20%)	3 X 400 (+15%, -20%)	3 X 480 (+10%, -15%)		NOM. BATTERY VOLTAGE	RANGE
B 3861	B 3881	B 3891	B 3861 V	B 3881 V	B 3891 V	150 (1)	12	12-16
B 3862	B 3882	B 3892	B 3862 V	B 3882 V	B 3892 V	80	24	24-32
B 3864	B 3884	B 3894	B 3864 V	B 3884 V	B 3894 V	45	48	48-64
B 3866	B 3886	B 3896	B 3866 V	B 3886 V	B 3896 V	35	60	60-80
B 3867	B 3887	B 3897	B 3867 V	B 3887 V	B 3897 V	20	110	110-145
B 3868	B 3888	B 3898	B 3868 V	B 3888 V	B 3898 V	10	220	220-290

(1) External fan recommend.

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4KW, 6RU 56TE

INPUT VAC, 1 PHASE			INPUT VAC, 3 PHASE				OUTPUT AMPS	OUTPUT VDC	
115 ±20%	OUTPUT AMPS	230 (+15%, -20%)	3X200 (+15%, -20%)	3X400 (+15%, -20%)	3X480 (+10%, -15%)	NOM. BATTERY VOLTAGE		RANGE	
B 4861	220 (1)	B 4881	B 4861 V	B 4881 V	B 4891 V	220 (1)	12	12-16	
B 4862	122	B 4882	B 4862 V	B 4882 V	B 4892 V	140	24	24-32	
B 4864	62	B 4884	B 4864 V	B 4884 V	B 4894 V	70	48	48-64	
B 4866	50	B 4886	B 4866 V	B 4886 V	B 4896 V	60	60	60-80	
B 4867	28	B 4887	B 4867 V	B 4887 V	B 4897 V	34	110	110-145	
B 4868	14	B 4888	B 4868 V	B 4888 V	B 4898 V	18	220	220-290	

(1) Suited for wall-mount, alternative upon request.

5KW 3RU 40TE (HORIZONTAL), 5RU 25TE (VERTICAL)

INPUT VAC, 3 PHASE		OUTPUT AMPS	OUTPUT VDC	
3 X 400 (+15%, -20%)	3 X 480 (+10%, -15%)		NOM. BATTERY VOLTAGE	RANGE
B 5182V	B 5192 V	100	24	24-32
B 5184V	B 5194 V	80	48	48-64
B 5186V	B 5196 V	62	60	60-80
B 5187V	B 5197 V	34	110	110-145

4.5KW, 6 or 9RU 19"

6KW 6 or 9 RU 19" (Model Dep.)

INPUT VAC, 1 PHASE			INPUT VAC, 3 PHASE				OUTPUT AMPS	OUTPUT VDC	
115 ±20%	OUTPUT AMPS	230 (+15%, -20%)	3 X 200 (+15%, -20%)	3 X 400 (+15%, -20%)	3 X 480 (+10%, -15%)	NOM. BATTERY VOLTAGE		RANGE	
B 5661	265 (1)	B 5681	B 5661 V	B 5681 V	B 5691 V	375	12	12-16	
B 5662	140	B 5682	B 5662 V	B 5682 V	B 5692 V	190	24	24-32	
B 5664	70	B 5684	B 5664 V	B 5684 V	B 5694 V	95	48	48-64	
B 5666	55	B 5686	B 5666 V	B 5686 V	B 5696 V	75	60	60-80	
B 5667	31	B 5687	B 5667 V	B 5687 V	B 5697 V	41	110	110-145	
B 5668	16	B 5688	B 5668 V	B 5688 V	B 5698 V	21	220	220-290	

7.5KW 4RU 19"

INPUT VAC, 3 PHASE			OUTPUT AMPS	OUTPUT VDC	
3 X 200 (+15%, -20%)	3 X 400 (+15%, -20%)	3 X 480 (+10%, -15%)		NOM. BATTERY VOLTAGE	RANGE
B 5361 V	B 5381 V	B 5391 V	350	12	12-16
B 5362 V	B 5382 V	B 5392 V	235	24	24-32
B 5364 V	B 5384 V	B 5394 V	115	48	48-64
B 5366 V	B 5386 V	B 5396 V	93	60	60-80
B 5367 V	B 5387 V	B 5397 V	52	110	110-145
B 5368 V	B 5388 V	B 5398 V	26	220	220-290

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8KW WATER COOLED, 5RU 19"

INPUT VAC, 3 PHASE			OUTPUT AMPS	OUTPUT VDC	
3X200 (+15%, -20%)	3X400 (+15%, -20%)	3X480 (+10%, -15%)		NOM. BATTERY VOLTAGE	RANGE
BW 5361 V	BW 5381 V	BW 5391 V	350	12	12-16
BW 5362 V	BW 5382 V	BW 5392 V	250	24	24-32
BW 5364 V	BW 5384 V	BW 5394 V	125	48	48-64
BW 5366 V	BW 5386 V	BW 5396 V	100	60	60-80
BW 5367 V	BW 5387 V	BW 5397 V	56	110	110-145
BW 5368 V	BW 5388 V	BW 5398 V	28	220	220-290

6.5KW, 9RU 19"

8KW 6 or 9RU (Model Dep.) 19"

INPUT VAC, 1 PHASE		INPUT VAC, 3 PHASE				OUTPUT AMPS	OUTPUT VDC	
115 ±20%	OUTPUT AMPS	230 (+15%, -20%)	3 X 200 (+15%, -20%)	3 X 400 (+15%, -20%)	3X480 (+10%, -15%)		NOM. BATTERY VOLTAGE	RANGE
B 5761	385	B 5781	B 5761 V	B 5781 V	B 5791 V	400	12	12-16
B 5762	200	B 5782	B 5762 V	B 5782 V	B 5792 V	250	24	24-32
B 5764	100	B 5784	B 5764 V	B 5784 V	B 5794 V	125	48	48-64
B 5766	80	B 5786	B 5766 V	B 5786 V	B 5796 V	100	60	60-80
B 5767	45	B 5787	B 5767 V	B 5787 V	B 5797 V	55	110	110-145
B 5768	22	B 5788	B 5768 V	B 5788 V	B 5798 V	28	220	220-290

10KW 4RU 19"

INPUT VAC, 3 PHASE			OUTPUT AMPS	OUTPUT VDC	
3 X 200 (+15%, -20%)	3 X 400 (+15%, -20%)	3 X 480 (+10%, -15%)		NOM. BATTERY VOLTAGE	RANGE
B 5462 V	B 5482 V	B 5492 V	320	24	24-32
B 5464 V	B 5484 V	B 5494 V	160	48	48-64
B 5466 V	B 5486 V	B 5496 V	130	60	60-80
B 5467 V	B 5487 V	B 5497 V	70	110	110-145
B 5468 V	B 5488 V	B 5498 V	35	220	220-290

8.8KW, 9RU 19"

12KW 6 OR 9RU (Model Dep.) 19"

INPUT VAC, 1 PHASE		INPUT VAC, 3 PHASE				OUT PUT AMPS	OUTPUT VDC	
115 ±20%	OUTPUT AMPS	230 (+15%, -20%)	3X200 (+15%, -20%)	3X400 (+15%, -20%)	3X480 (+10%, -15%)		NOM. BATTERY VOLTAGE	RANGE
B 5861	400	-	-	-	-	12	12-16	
B 5862	265	B 5882	B 5862 V	B 5882 V	B 5892 V	375	24	24-32
B 5864	135	B 5884	B 5864 V	B 5884 V	B 5894 V	190	48	48-64
B 5866	110	B 5886	B 5866 V	B 5886 V	B 5896 V	155	60	60-80
B 5867	60	B 5887	B 5867 V	B 5887 V	B 5897 V	83	110	110-145
B 5868	30	B 5888	B 5868 V	B 5888 V	B 5898 V	42	220	220-290

15KW WATER COOLED, 5RU 19"

INPUT VAC, 3 PHASE			OUTPUT AMPS	OUTPUT VDC	
3 X 200 (+15%, -20%)	3 X 400 (+15%, -20%)	3 X 480 (+10%, -15%)		NOM. BATTERY VOLTAGE	RANGE
BW 5562 V	BW 5582 V	BW 5592 V	328	24	24-32
BW 5564 V	BW 5584 V	BW 5594 V	234	48	48-64
BW 5566 V	BW 5586 V	BW 5596 V	188	60	60-80
BW 5567 V	BW 5587 V	BW 5597 V	104	110	110-145
BW 5568 V	BW 5588 V	BW 5598 V	52	220	220-290

22KW 8RU 19"

INPUT VAC, 3 PHASE		OUTPUT AMPS	OUTPUT VDC	
3X400 (+15%, -20%)	3X480 (+10%, -15%)		ADJ.	RANGE
B 6484 V	B 6494 V	310	48	48-64
B 6486 V	B 6496 V	270	60	60-80
B 6487 V	B 6497 V	150	110	110-145
B 6488 V	B 6498 V	75	220	220-290