EA-BCI 8000 1.5KW - 150KW 19"
通用型可编程电池充电器 / PROGRAMMABLE UNIVERSAL BATTERY CHARGERS

Auto-range

3HE 版本 / 3U version

2HE 版本 / 2U version

U
I
OVP
OT
USB
RS232
LAN
IEEE
CAN
AI

- **1.5kW以下型号为90...264V宽范围输入电压**
- **3kW的为180...264V正常范围输入电压**
- **5kW的则为340...460V三相输入电压**
- **输出功率：0…1.5kW, 0…3kW, 0…5kW, 0…10kW, 0...15kW**
  功率还可扩展至150kW
- **多种输出电压，高达900V**
- **充电电流高达510A**
  电流还可扩展至5100A
- **适合於：Li-Ion和Pb, NiCd, NiMH**
- **温控充电特性**
- **自由编程充电特性**
- **可当电源使用，且所有参数可调**
- **图形显示器显示所有数值和功能**
- **显示器显示状态信号**
- **有短路保护和反接保护**
- **有过压保护(OVP)**
- **有过温保护(OT)**
- **可自动检测的远程感测端**
- **温控风扇制冷**
- **采用2U或3U的19" 外壳**

- **Wide range input 90...264V at 1.5kW**
- **Normal range input 180...264V at 3kW**
- **Multi-phase input 340...460V from 5kW**
- **Output power ratings: 0...1.5kW, 0...3kW, 0...5kW, 0...10kW, 0...15kW**
  Expandable up to 0...150kW
- **Many output voltage variants up to 900V**
- **Charging currents up to 0...510A**
  Expandable up to 0...5100A
- **Suitable for: Li-Ion, plus Pb, NiCd, NiMH**
- **Temperature controlled charging**
- **Free programmable charging profiles**
- **Power supply mode with all parameter adjustable**
- **Graphic display for all values and indications**
- **Status notifications via display**
- **Short circuit and reverse polarity protection**
- **Overvoltage protection (OVP)**
- **Overtemperature protection (OT)**
- **Remote sense with automatic detection**
- **Temperature controlled fans**
- **19" housing in 2U or 3U**

概要
EA-BCI 8000新系列电池充电器最大功率高达15kW，且为19"机架式外壳，高度仅为3U。按需求采用并联连接组成的系统可高达150kW。这样用户可快速且可靠地给超大容量的电池串充电。

"power supply mode-电源模式"特征让用户在并联待机操作下也可运作本产品。

图形显示器下的清晰菜单给正确设定给予快速、简易的指引。充电器经可选数字接口卡可编程，远程控制和监控。故可管理、分析和评估一个或更多电池的所有参数。

General
The new series EA-BCI 8000 offers models with up to 15kW in 19" rack mount housings and only 3U. Using parallel operation, systems up to 150kW can be built upon request. This will enable the user to charge even highest capacity battery strings fast and reliably.
The „power supply mode" feature gives to opportunity to run the devices in parallel standby operation.

The clear menu in the graphic display provides a fast and simple guide to correct settings. The chargers can be programmed, remotely controlled and monitored using the optional digital interface cards. Thus all the data for one or more batteries can be administered, analysed and evaluated.

EA-BCI 8000 1.5KW‑150KW 19"
通用型可编程电池充电器 / PROGRAMMABLE UNIVERSAL BATTERY CHARGERS

充电循环
EA-BCI 8000 系列非常适合充Li-Ion电池，也可充铅性、NiCd、NiMH电池。用户可针对特定电池类型简便地参数化充电循环阶段。

锂离子电池的充电循环阶段
针对锂离子电池，可编程修复充电、预充、快充和峰值充电的各项参数。

可编程的参数，比如充电电压、电流、时间、温度补偿。

按此方式每个电池可单独充电，从而使充满容量和寿命得到最大优化。

还可在允许的可调宽范围内编辑几乎任何电池参数，该项特征使得本产品成为任何类型锂电池的理想充电器。

铅酸电池的充电阶段
本产品可用4个充电循环阶段来充液态、GEL或AGM铅酸电池，或者用5个循环阶段来充，包含存储和刷新模式。

铅酸电池分四个充电阶段的情况
电池接到充电器上后，单片机检测电池极性和电压，确定是否开始充电。如果电池极性错误或完全过放(<0,2 x Unom)，则不开始充电。只过放一点点的电池(>0,2 至 <0,9 x Unom)，则以减小后的电流开始**预充循环阶段**。

然后紧接着进行**快充阶段**，以全电压和最大电流进行，直到充电电流下降到输出电流的**80%**以下。

接着进入**补足充电阶段**，以恒压进行，直到电流下降到额定充电电流的**15%**，或已完成12个小时充电时间而结束。

第四阶段是**涓充循环阶段**，此时一直保持给电池充电。

铅酸电池分五个充电阶段的情况
如果电池在很长一段时间内一直与充电器相连，且不释放任何能量，24小时后存储的电量会被减少。此时以较低电压对闲置电池进行储存充电，可以延长电池寿命。定期进行的维护充电可修复电池以补偿自放电释放的电量。

NiCd 和 NiMH 电池的充电循环阶段
针对NiCd 和 NiMh电池，可编程预充、主充和POST充。另外，充满识别条件可选择ΔU 或 ΔT或两者的结合。

可编程参数有，如：充电电压、电流、时间、温度补偿。

按此种方式每个电池可单独充电，从而使充满容量和寿命得到最大优化。
由於对电池充电器所有参数进行编程的特点，使得产品适合所有类型的NiCd 和 NiMh电池。

Charging profiles
The chargers in the EA-BCI 8000 series are very suitable for Lithium ion batteries. But also lead, NiCd or NiMH batteries can be charged. The required charging cycles are easily parameterised by the user for specific batteries.

Charging cycles for Lithium ion batteries
For Lithium ion batteries the parameters for maintenance charge, precharge, fast charge and peak charge are programmable.
Charging voltage, current, time, temperature compensation are some examples of the parameters which can be programmed.
In this way every battery can be individually charged and the capacity and life are optimised.

The possibility to edit virtually any battery parameter within a wide adjustment range makes the chargers ideal for any type of Lithium batteries.

Charging profile for lead-acid batteries
The devices use either a 4-stage charging cycle for charging lead-acid batteries with liquid, gel or felt soaked (AGM) electrolyte, or a 5-stage cycle which includes a storage and refresh mode.

Four step charging for lead-acid batteries
After connecting the battery, the microprocessor checks the polarity and voltage of the battery, and determines if and when the charging process should begin. False polarity or complete discharge (<0.2 x U_{Nom}) will not be charged. Lowly discharged batteries (>0.2 to <0.9 x U_{Nom}) start with a **precharge cycle** at reduced current.

This stage is followed by a **boost charge**, using full power and maximum current until the charging current sinks below 80% of the nominal current.

There follows an **absorption charge** at constant voltage until either the current has fallen below 15% or a charging time of 12 hours is reached.

The fourth stage is a **trickle charge** in which the total charge in the battery is kept constant.

Five step charging for lead-acid batteries
If a battery remains connected to a charger for a long period without delivering any energy, the maintenance charge is reduced after 24 hours. This storage charge with reduced voltage for an unused battery leads to a longer battery life. At regular intervals the maintenance charge refreshes the battery to compensate for autodischarge.

Charging cycles for NiCd and NiMH batteries
For NiCd and NiMh batteries the parameters for precharge, main charge and post charge are programmable. In addition the recognition of fully-charged can be selected as either ΔU or ΔT or as a combination of both.
Charging voltage, current, time, temperature compensation are some examples of the parameters which can be programmed.
In this way every battery can be individually charged and the capacity and life optimised.
The possibility of programming the battery charger for all parameters makes it suitable for all types of NiCd and NiMH batteries.

EA-BCI 8000 1.5KW – 150KW   19"
通用型可编程电池充电器 / *PROGRAMMABLE UNIVERSAL BATTERY CHARGERS*

温度补偿充电循环
电池充电时建议用一温度感测器，它可根据电池的温度，调节电压，从而限制危险气体的释放，防止过充。
针对NiCd 和 NiMH电池，该温度感测器不仅可以帮助辨别充满状态，也可防止释放危险气体。

输出
本系列有充电电流为15A和5100A，功率级别1.5kW至150kW的不同型号。

功率
本系列所有产品输出功率灵活变化，在低电流时输出更高电压，或在低电压时输出更大电流，都由最大输出功率来限制。因此一台该仪器能涵盖大范围的应用领域。

远程感测输入端
远程感测输入端可直接连到电池上，以补偿连线上的压降。如果输入端已接上负载，本充电器将自动纠正输出电压，确保电池获得准确所需的电压。

模拟接口
模拟接口上有一温度补偿输入端。想要监控充电电压和电流，可在模拟输出端接上0V...10V电压。此外，还有数个输入端和输出端，用来控制和监控产品状态。

可选项
- EA-BCI 8000可通过RS232, CAN, USB或乙太网/LAN绝缘数字接口卡，用电脑遥控。接口插槽位于产品后板。也可参考62页。
-
-

- 水冷制冷方式（5kW以上型号）

Temperature compensated charging cycles
It is recommended that a temperature sensor is used for battery charging. The charging voltage can then be adjusted to the temperature of the battery thus limiting the emissions of dangerous gases and prevent overcharging. For NiCd and NiMH batteries, a temperature sensor can help not only with fully-charged recognition, but also as protection against dangerous gas emission.

Output
Chargers with charging currents from 15A up to 5100A and power ratings of 1.5kW to 150kW are available.

Power
All units are equipped with a flexible, auto-ranging output stage which provides a higher output voltage at lower output current, resp. a higher output current at lower output voltage, while always being limited to the maximum nominal output power. Therefore, a wide range of applications can already be covered by the use of just one single unit.

Sense input
The sense input can be connected directly to the battery to compensate voltage drops along the power leads. If the sense input is connected to the load, the battery charger will correct the voltage automatically, in order to ensure that the accurate required voltage is available on the battery.

Analogue interface
An analogue input for temperature compensation is available. For monitoring the charging voltage and current, analogue outputs are available with voltages of 0V...10V. Several digital inputs and outputs are available for controlling and monitoring the status.

Options
- The devices of EA-BCI 8000 series are remotely controllable by using a personal computer via different isolated, digital interface cards for RS232, CAN, USB or Ethernet/LAN. There is a interface slot on the rear of the devices. Also see page 62.

- Water cooling (for models from 5kW)

EA-BCI 8000 1.5KW – 150KW 19"
通用型可编程电池充电器 / PROGRAMMABLE UNIVERSAL BATTERY CHARGERS

技术参数	Technical Data	BCI 8040-60 2U	BCI 8080-60 2U	BCI 8240-15 2U	BCI 8360-15 2U	BCI 8040-120 2U
输入电压	Input voltage	90...264V	90...264V	90...264V	90...264V	90...264V
-频率	-Frequency	45...65Hz	45...65Hz	45...65Hz	45...65Hz	45...65Hz
-功率因数	-Power factor	>0,99	>0,99	>0,99	>0,99	>0,99
输出电压 (DC)	Output voltage (DC)	0...40V	0...80V	0...240V	0...360V	0...40V
-负载0-100% 时的稳定度	-Stability at 0-100% load	<0,05%	<0,05%	<0,05%	<0,05%	<0,05%
-在±10% Δ U$_{IN}$时的稳定度	-Stability at ±10% ΔU$_{IN}$	<0,02%	<0,02%	<0,02%	<0,02%	<0,02%
-负载10%-100%调整需时	-Regulation 10-100% load	<1ms	<1ms	<2ms	<2ms	<1ms
-纹波	-Ripple	<5mV$_{RMS}$	<5mV$_{RMS}$	<10mV$_{RMS}$	<10mV$_{RMS}$	<5mV$_{RMS}$
-OVP过压保护调节范围	-OVP adjustment	0...44V	0...88V	0...264V	0...396V	0...44V
-感测端调整	-Sense regulation			max. 2V		
输出电流*	Output current *	0...60A @ 25V 0...37,5A @ 40V	0...60A @ 25V 0...18,8A @ 80V	0...15A @ 100V 0...6,25A @ 240V	0...15A @ 100V 0...4,2A @ 360V	0...120A @ 25V 0...75A @ 40V
-0-100%ΔU$_{OUT}$ 时的稳定度	-Stability at 0-100% ΔU$_{OUT}$	<0,15%	<0,15%	<0,15%	<0,15%	<0,15%
±10% Δ U$_{IN}$时的稳定度	-Stability at ±10% ΔU$_{IN}$	<0,05%	<0,05%	<0,05%	<0,05%	<0,05%
-纹波	-Ripple	<7mA$_{RMS}$	<7mA$_{RMS}$	<6mA$_{RMS}$	<6mA$_{RMS}$	<9mA$_{RMS}$
输出功率	Output power	1500W	1500W	1500W	1500W	3000W
过压类别	Overvoltage category			2		
污染程度	Pollution degree			2		
保护等级	Protection class			1		
模拟编程制冷	Analogue programming		Start, Stop, Temperature sensor / 开启，停止，温度传感器			
制冷	Cooling		前板进风后板排风 / Front air inlet and rear exhaust			
工作温度	Operation temperature			0..50℃		
尺寸 (WxHxD)	Dimensions (WxHxD)	19" 2HE/U 460mm	19" 2HE/U 460mm	19" 2HE/U 460mm	19" 2HE/U 460mm	19" 2HE/U 460mm
重量	Weight	13,5kg	13,5kg	13,5kg	13,5kg	16,5kg
产品编号	Article No.	27130420	27130421	27130422	27130424	27130425

技术参数	Technical Data	BCI 8080-120 2U	BCI 8160-60 2U	BCI 8240-30 2U	BCI 8360-30 2U	BCI 8480-15 2U
输入电压	Input voltage	90...264V	90...264V	90...264V	90...264V	90...264V
-频率	-Frequency	45...65Hz	45...65Hz	45...65Hz	45...65Hz	45...65Hz
-功率因数	-Power factor	>0,99	>0,99	>0,99	>0,99	>0,99
输出电压 (DC)	Output voltage (DC)	0...80V	0...160V	0...240V	0...360V	0...480V
-负载0-100% 时的稳定度	-Stability at 0-100% load	<0,05%	<0,05%	<0,05%	<0,05%	<0,05%
-在±10% Δ U$_{IN}$时的稳定度	-Stability at ±10% ΔU$_{IN}$	<0,02%	<0,02%	<0,02%	<0,02%	<0,02%
-负载10%-100%调整需时	-Regulation 10-100% load	<1ms	<1ms	<2ms	<2ms	<2ms
-纹波	-Ripple	<5mV$_{RMS}$	<10mV$_{RMS}$	<12mV$_{RMS}$	<12mV$_{RMS}$	<20mV$_{RMS}$
-OVP过压保护调节范围	-OVP adjustment	0...88V	0...176V	0...264V	0...396V	0...528V
-感测端调整	-Sense regulation			max. 2V		
输出电流*	Output current *	0...120A @ 25V 0...37,5A @ 80V	0...60A @ 50V 0...18,75A @ 160V	0...30A @ 100V 0...12,5A @ 240V	0...30A @ 100V 0...8,3A @ 360V	0...15A @ 200V 0...6,25A @ 480V
-0-100%ΔU$_{OUT}$ 时的稳定度	-Stability at 0-100% ΔU$_{OUT}$	<0,15%	<0,15%	<0,15%	<0,15%	<0,15%
±10% Δ U$_{IN}$时的稳定度	-Stability at ±10% ΔU$_{IN}$	<0,05%	<0,05%	<0,05%	<0,05%	<0,05%
-纹波	-Ripple	<9mA$_{RMS}$	<6mA$_{RMS}$	<21mA$_{RMS}$	<21mA$_{RMS}$	<1mA$_{RMS}$
输出功率	Output power	3000W	3000W	3000W	3000W	3000W
过压类别	Overvoltage category			2		
污染程度	Pollution degree			2		
保护等级	Protection class			1		
模拟编程制冷	Analogue programming		Start, Stop, Temperature sensor / 开启，停止，温度传感器			
制冷	Cooling		前板进风后板排风 / Front air stream inlet and rear exhaust			
工作温度	Operation temperature			0..50℃		
尺寸 (WxHxD)	Dimensions (WxHxD)	19" 2HE/U 460mm	19" 2HE/U 460mm	19" 2HE/U 460mm	19" 2HE/U 460mm	19" 2HE/U 460mm
重量	Weight	16,5kg	16,5kg	16,5kg	16,5kg	16,5kg
产品编号	Article No.	27130426	27130430	27130427	27130428	27130429

* 最大电流始终由自动功率调整的最大功率限制（也可见„功率"段落）/
the max. current is always limited by the max. power of the auto-ranging power stage (also see paragraph „Power")

EA-BCI 8000 1.5KW‑150KW 19"
通用型可编程电池充电器 / PROGRAMMABLE UNIVERSAL BATTERY CHARGERS

技术参数	Technical Data	BCI 8720-15 2U	BCI 8040-170 3U	BCI 8080-170 3U	BCI 8200-70 3U	BCI 8300-30 3U
输入电压	Input voltage	90...264V	340...460V	340...460V	340...460V	340...460V
-频率	-Frequency	45...65Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
-功率因数	-Power factor	>0,99	>0,99	>0,99	>0,99	>0,99
输出电压(DC)	Output voltage (DC)	0...720V	0...40V	0...80V	0...200V	0...300V
-负载0-100% 时的稳定度	-Stability at 0-100% load	<0,05%	<0,05%	<0,05%	<0,05%	<0,05%
-在±10% Δ U$_{IN}$时的稳定度	-Stability at ±10% ΔU$_{IN}$	<0,02%	<0,02%	<0,02%	<0,02%	<0,02%
-负载10%-100%调整需时	-Regulation 10-100% load	<2ms	<1ms	<1ms	<2ms	<2ms
-纹波	-Ripple	<20mV$_{RMS}$	<12mV$_{RMS}$	<12mV$_{RMS}$	<18mV$_{RMS}$	<40mV$_{RMS}$
-OVP过压保护调节范围	-OVP adjustment	0...792V	0...44V	0...88V	0...220V	0...330V
-感测端调整	-Sense regulation			max. 2V		
输出电压*	Output current *	0...15A @ 200V 0...4,15A @ 720V	0...170A @ 29,4V 0...125A @ 40V	0...170A @ 29,4V 0...62,5A @ 80V	0...70A @ 71,4V 0...25A @ 200V	0.. 30A @ 166,6V 0...16,7A @ 300V
-0-100%ΔU$_{OUT}$ 时的稳定度	-Stability at 0-100% ΔU$_{OUT}$	<0,15%	<0,15%	<0,15%	<0,15%	<0,15%
-±10% Δ U$_{IN}$时的稳定度	-Stability at ±10% ΔU$_{IN}$	<0,05%	<0,05%	<0,05%	<0,05%	<0,05%
-纹波	-Ripple	<1mA$_{RMS}$	<25mA$_{RMS}$	<25mA$_{RMS}$	<6mA$_{RMS}$	<3mA$_{RMS}$
输出功率	Output power	3000W	5000W	5000W	5000W	5000W
过压类别	Overvoltage category			2		
污染程度	Pollution degree			2		
保护等级	Protection class			1		
模拟编程	Analogue programming			Start, Stop, Temperature sensor / 开启，停止，温度传感器		
制冷	Cooling			前板进风后板排风 / Front air stream inlet and rear exhaust		
工作温度	Operation temperature			0.. 50℃		
尺寸 (WxHxD)	Dimensions (WxHxD)	19" 2HE/U 460mm	19" 3HE/U 595mm	19" 2HE/U 595mm	19" 3HE/U 595mm	19" 3HE/U 595mm
重量	Weight	16,5kg	19,5kg	19,5kg	19,5kg	19,5kg
产品编号	Article No.	27130452	27130431	27130432	27130433	27130434

技术参数	Technical Data	BCI 8400-30 3U	BCI 8500-30 3U	BCI 8080-340 3U	BCI 8160-170 3U	BCI 8200-140 3U
输入电压	Input voltage	340...460V	340...460V	340...460V	340...460V	340...460V
-频率	-Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
-功率因数	-Power factor	>0,99	>0,99	>0,99	>0,99	>0,99
输出电压(DC)	Output voltage (DC)	0...400V	0...500V	0...80V	0...160V	0...200V
-负载0-100% 时的稳定度	-Stability at 0-100% load	<0,05%	<0,05%	<0,05%	<0,05%	<0,05%
-在±10% Δ U$_{IN}$时的稳定度	-Stability at ±10% ΔU$_{IN}$	<0,02%	<0,02%	<0,02%	<0,02%	<0,02%
-负载10%-100%调整需时	-Regulation 10-100% load	<2ms	<2ms	<1ms	<1ms	<2ms
-纹波	-Ripple	<40mV$_{RMS}$	<40mV$_{RMS}$	<9mV$_{RMS}$	<25mV$_{RMS}$	<15mV$_{RMS}$
-OVP过压保护调节范围	-OVP adjustment	0...440V	0...550V	0...88V	0...176V	0...220V
-感测端调整	-Sense regulation			max. 2V		
输出电压*	Output current *	0...30A @ 166,6V 0...12,5A @ 400V	0...30A @ 166,6V 0...10A @ 500V	0...340A @ 29,4V 0...125A @ 80V	0...170A @ 58,8V 0...62,5A @ 160V	0...140A @ 71,4V 0.. 50A @ 200V
-0-100%ΔU$_{OUT}$ 时的稳定度	-Stability at 0-100% ΔU$_{OUT}$	<0,15%	<0,15%	<0,15%	<0,15%	<0,15%
-±10% Δ U$_{IN}$时的稳定度	-Stability at ±10% ΔU$_{IN}$	<0,05%	<0,05%	<0,05%	<0,05%	<0,05%
-纹波	-Ripple	<3mA$_{RMS}$	<3mA$_{RMS}$	<14mA$_{RMS}$	<25mA$_{RMS}$	<6mA$_{RMS}$
输出功率	Output power	5000W	5000W	10000W	10000W	10000W
过压类别	Overvoltage category			2		
污染程度	Pollution degree			2		
保护等级	Protection class			1		
模拟编程	Analogue programming			Start, Stop, Temperature sensor / 开启，停止，温度传感器		
制冷	Cooling			前板进风后板排风 / Front air stream inlet and rear exhaust		
工作温度	Operation temperature			0.. 50℃		
尺寸 (WxHxD)	Dimensions (WxHxD)	19" 3HE/U 595mm	19" 3HE/U 595mm	19" 3HE/U 595mm	19" 3HE/U 595mm	19" 3HE/U 595mm
重量	Weight	19,5kg	19,5kg	26kg	26kg	26kg
产品编号	Article No.	27130435	27130450	27130436	27130437	27130438

* 最大电流始终由自动功率调整的最大功率限制（也可见„功率"段落）/
the max. current is always limited by the max. power of the auto-ranging power stage (also see paragraph „Power")

EA-BCI 8000　1.5KW - 150KW　19"
通用型可编程电池充电器 / PROGRAMMABLE UNIVERSAL BATTERY CHARGERS

技术参数	Technical Data	BCI 8300-70 3U	BCI 8400-70 3U	BCI 8500-60 3U	BCI 8750-30 3U	BCI 81000-30 3U
输入电压	Input voltage	340...460V	340...460V	340...460V	340...460V	340...460V
-频率	-Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
-功率因数	-Power factor	>0,99	>0,99	>0,99	>0,99	>0,99
输出电压(DC)	Output voltage (DC)	0...300V	0...400V	0...500V	0...750V	0...1000V
-负载0-100% 时的稳定度	-Stability at 0-100% load	<0,05%	<0,05%	<0,05%	<0,05%	<0,05%
-在±10% Δ U_{IN}时的稳定度	-Stability at ±10% ΔU_{IN}	<0,02%	<0,02%	<0,02%	<0,02%	<0,02%
-负载10%-100%调整需时	-Regulation 10-100% load	<2ms	<2ms	<2ms	<2ms	<2ms
-纹波	-Ripple	<40mV$_{RMS}$	<40mV$_{RMS}$	<30mV$_{RMS}$	<40mV$_{RMS}$	<40mV$_{RMS}$
-OVP过压保护调节范围	-OVP adjustment	0...330V	0...440V	0...550V	0...825V	0...1100V
-感测端调整	-Sense regulation			max. 2V		
输出电压*	Output current *	0...70A @ 143V 0...33,3A @ 300V	0...70A @ 143V 0...25A @ 400V	0...60A @ 166,7V 0...20A @ 500V	0.. 30A @ 333V 0...13,3A @ 750V	0.. 30A @ 333V 0...10A @ 1000V
-0-100%ΔU_{OUT} 时的稳定度	-Stability at 0-100% ΔU_{OUT}	<0,15%	<0,15%	<0,15%	<0,15%	<0,15%
-±10% Δ U_{IN}时的稳定度	-Stability at ±10% ΔU_{IN}	<0,05%	<0,05%	<0,05%	<0,05%	<0,05%
-纹波	-Ripple	<5mA$_{RMS}$	<5mA$_{RMS}$	<3mA$_{RMS}$	<1mA$_{RMS}$	<1mA$_{RMS}$
输出功率	Output power	10000W	10000W	10000W	10000W	10000W
过压类别	Overvoltage category			2		
污染程度	Pollution degree			2		
保护等级	Protec ion class			1		
模拟编程	Analogue programming		Start, Stop, Temperature sensor / 开启，停止，温度传感器			
制冷	Cooling		前板进风后板排风 / Front air stream inlet and rear exhaust			
工作温度	Operation temperature			0.. 50°C		
尺寸 (WxHxD)	Dimensions (WxHxD)	19" 3HE/U 595mm	19" 3HE/U 595mm	19" 3HE/U 595mm	19" 3HE/U 595mm	19" 3HE/U 595mm
重量	Weight	26kg	26kg	26kg	26kg	26kg
产品编号	Article No.	27130451	27130440	27130441	27130453	27130442

技术参数	Technical Data	BCI 8080-510 3U	BCI 8200-210 3U	BCI 8240-170 3U	BCI 8500-90 3U	BCI 8600-70 3U
输入电压	Input voltage	340...460V	340...460V	340...460V	340...460V	340...460V
输入电压（可选）	Input voltage opt.	588...796V + MP	588...796V + MP	588...796V + MP	588...796V + MP	588...796V + MP
-频率	-Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
-功率因数	-Power factor	>0,99	>0,99	>0,99	>0,99	>0,99
输出电压(DC)	Output voltage (DC)	0...80V	0...200V	0...240V	0...500V	0...600V
-负载0-100% 时的稳定度	-Stability at 0-100% load	<0,05%	<0,05%	<0,05%	<0,05%	<0,05%
-在±10% Δ U_{IN}时的稳定度	-Stability at ±10% ΔU_{IN}	<0,02%	<0,02%	<0,02%	<0,02%	<0,02%
-负载10%-100%调整需时	-Regulation 10-100% load	<1ms	<2ms	<2ms	<2ms	<2ms
-纹波	-Ripple	<9mV$_{RMS}$	<15mV$_{RMS}$	<25mV$_{RMS}$	<30mV$_{RMS}$	<40mV$_{RMS}$
-OVP过压保护调节范围	-OVP adjustment	0...88V	0...220V	0...264V	0...550V	0...660V
-感测端调整	-Sense regulation			max. 2V		
输出电压*	Output current *	0...510A @ 29,4V 0...187,5A @ 80V	0...210A @ 71,4V 0...75A @ 200V	0...170A @ 88,2V 0...62,5A @ 240V	0.. 90A @ 166,7V 0.. 30A @ 500V	0...70A @ 214V 0.. 25A @ 600V
-0-100%ΔU_{OUT} 时的稳定度	-Stability at 0-100% ΔU_{OUT}	<0,15%	<0,15%	<0,15%	<0,15%	<0,15%
-±10% Δ U_{IN}时的稳定度	-Stability at ±10% ΔU_{IN}	<0,05%	<0,05%	<0,05%	<0,05%	<0,05%
-纹波	-Ripple	<21mA$_{RMS}$	<12mA$_{RMS}$	<20mA$_{RMS}$	<4mA$_{RMS}$	<4mA$_{RMS}$
输出功率	Output power	15000W	15000W	15000W	15000W	15000W
过压类别	Overvoltage category			2		
污染程度	Pollution degree			2		
保护等级	Protec ion class			1		
模拟编程	Analogue programming		Start, Stop, Temperature sensor / 开启，停止，温度传感器			
制冷	Cooling		前板进风后板排风 / Front air stream inlet and rear exhaust			
工作温度	Operation temperature			0.. 50°C		
尺寸 (WxHxD)	Dimensions (WxHxD)	19" 3HE/U 595mm	19" 3HE/U 595mm	19" 3HE/U 595mm	19" 3HE/U 595mm	19" 3HE/U 595mm
重量	Weight	32,5kg	32,5kg	32,5kg	32,5kg	32,5kg
产品编号	Article No.	27130445	27130446	27130454	27130443	27130455

* 最大电流始终由自动功率调整的最大功率限制（也可见„功率"段落）/
the max. current is always limited by the max. power of the auto-ranging power stage (also see paragraph „Power")