

BC-HP-E PROGRAMMABLE HIGH POWER CHARGERS



The BC-HP-E is a high power charger, with output voltages up to 1500V available. A ten turn digitally encoded potentiometer allows for straight forward front panel operation.

The front panel display indicates all relevant output quantities simultaneously. Output values can be preset and read prior to releasing the output. ATE options are offered for system integration. Each unit has an RS-232 and isolated analogue interface with user switchable ranges (0 - 5VDC / 0 - 10VDC) as standard. If computer control is required then any combination of integrated RS-485, GPIB, USB & LAN interfaces can be specified. An advanced version is optionally available with CP mode and master/slave operation.

- + Constant Voltage and Current Modes
- Programmable Front Panel Operation
- + High Power Models up to 63kW
- + Optional Computer Interfaces
- Worldwide Input Options
- + Efficiency up to 94%



SELECTION TABLE

			OUTPUT	CURRENT		
OUTPUT VOLTAGE	3kW Models	4kW Models	5kW Models	7kW Models	10kW Models	15kW Models
0 - 15V	0 - 250A	0 - 500A	0 - 500A	0 - 500A	0 - 750A	0 - 1000A
0 - 20V	0 - 250A	0 - 250A	0 - 250A	0 - 500A	0 - 500A	0 - 750A
0 - 25V	0 - 240A	0 - 240A	0 - 240A	0 - 480A	0 - 480A	0 - 600A
0 - 30V	0 - 234A	0 - 234A	0 - 234A	0 - 234A	0 - 400A	0 - 500A
0 - 35V	0 - 200A	0 - 200A	0 - 200A	0 - 200A	0 - 400A	0 - 430A
0 - 40V	0 - 175A	0 - 175A	0 - 175A	0 - 175A	0 - 350A	0 - 375A
0 - 45V	0 - 156A	0 - 156A	0 - 156A	0 - 156A	0 - 320A	0 - 340A
0 - 50V	0 - 140A	0 - 140A	0 - 140A	0 - 140A	0 - 280A	0 - 300A
0 - 60V	0 - 117A	0 - 117A	0 - 117A	0 - 117A	0 - 170A	0 - 250A
0 - 70V	0 - 100A	0 - 100A	0 - 100A	0 - 100A	0 - 150A	0 - 220A
0 - 80V	0 - 88A	0 - 88A	0 - 88A	0 - 88A	0 - 125A	0 - 190A
0 - 100V	0 - 70A	0 - 70A	0 - 70A	0 - 70A	0 - 100A	0 - 150A
0 - 150V	0 - 47A	0 - 47A	0 - 47A	0 - 47A	0 - 70A	0 - 100A
0 - 300V	0 - 24A	0 - 24A	0 - 24A	0 - 24A	0 - 35A	0 - 50A
0 - 600V	0 - 12A	0 - 12A	0 - 12A	0 - 12A	0 - 17A	0 - 25A
0 - 800V	0 - 9A	0 - 9A	0 - 9A	0 - 9A	0 - 13A	0 - 19A
0 - 1000V	0 - 7A	0 - 7A	0 - 7A	0 - 7A	0 - 10A	0 - 15A
0 - 1200V	0 - 5.8A	0 - 5.8A	0 - 5.8A	0 - 5.8A	0 - 9A	0 - 13A
0 - 1500V	0 - 4.7A	0 - 4.7A	0 - 4.7A	0 - 4.7A	7kW	0 - 10A

	OUTPUT CURRENT						
OUTPUT VOLTAGE	21kW Models	30kW Models	35kW Models	45kW Models	49kW Models	56kW Models	63kW Models
0 - 20V	0 - 1250A	0 - 1500A	0 - 1750A	0 - 2250A	N/A	N/A	N/A
0 - 25V	0 - 1000A	0 - 1250A	0 - 1500A	0 - 1800A	0 - 2000A	0 - 2250A	N/A
0 - 30V	0 - 700A	0 - 1000A	0 - 1200A	0 - 1500A	0 - 1650A	0 - 1900A	0 - 2100A
0 - 35V	0 - 600A	0 - 857A	0 - 1000A	0 - 1285A	0 - 1400A	0 - 1600A	0 - 1800A
0 - 40V	0 - 525A	0 - 750A	0 - 900A	0 - 1125A	0 - 1240A	0 - 1400A	0 - 1575A
0 - 45V	0 - 470A	0 - 666A	0 - 800A	0 - 1000A	0 - 1100A	0 - 1250A	0 - 1400A
0 - 50V	0 - 420A	0 - 600A	0 - 700A	0 - 900A	0 - 1000A	0 - 1150A	0 - 1260A
0 - 60V	0 - 350A	0 - 500A	0 - 600A	0 - 750A	0 - 840A	0 - 950A	0 - 1050A
0 - 70V	0 - 300A	0 - 425A	0 - 500A	0 - 640A	0 - 700A	0 - 800A	0 - 900A
0 - 80V	0 - 270A	0 - 375A	0 - 450A	0 - 560A	0 - 620A	0 - 700A	0 - 800A
0 - 100V	0 - 210A	0 - 300A	0 - 350A	0 - 450A	0 - 500A	0 - 560A	0 - 640A
0 - 150V	0 - 140A	0 - 200A	0 - 240A	0 - 300A	0 - 330A	0 - 380A	0 - 420A
0 - 300V	0 - 70A	0 - 100A	0 - 120A	0 - 150A	0 - 170A	0 - 190A	0 - 210A
0 - 600V	0 - 35A	0 - 50A	0 - 60A	0 - 75A	0 - 85A	0 - 95A	0 - 105A
0 - 800V	0 - 27A	0 - 37A	0 - 44A	0 - 56A	0 - 62A	0 - 70A	0 - 80A
0 - 1000V	0 - 21A	0 - 30A	0 - 35A	0 - 45A	0 - 49A	0 - 56A	0 - 63A
0 - 1200V	0 - 18A	0 - 25A	0 - 30A	0 - 37A	0 - 41A	0 - 47A	0 - 53A
0 - 1500V	0 - 14A	0 - 20A	0 - 24A	0 - 30A	0 - 33A	0 - 38A	0 - 42A

(*→ **CUSTOM OUTPUT MODIFICATIONS**

You can specify your own nominal output voltage and current ranges outside of the selection table above. So if you needed to power a device which needs exactly 850V at 15kW, we can provide a new unit with exactly those output ranges often without increasing the lead time.

MODEL PART NUMBERS

To request a specific model is simple. The BC-HP-E product family name precedes the requested nominal output power, followed by the nominal voltage. The example below shows how to create the part number for a 30kW/1500V unit.





OPTIONS TABLE

OPTIONS	
CODE	DESCRIPTION
	OPERATING RANGES AND FEATURES
/2000V	Unit built with 2000V output
/HS	High speed model - secondary rise and fall time shortened by a factor of 10
/PR	Reversible output polarity (only in standby mode)
	OPERATING MODES
/HP	Advanced model with constant power mode and master/slave operation
	INPUT
/1P	Input voltage is 230VAC ± 10% (for models with outputs of 3kW to 5kW only)
/3P200	3 Phase input of 3 × 200VAC [180 - 220VAC], 50/60Hz
/3P208	3 Phase input of 3 × 208VAC (187 - 229VAC), 50/60Hz
/3P440	3 Phase input of 3 × 440VAC [396 - 484VAC], 50/60Hz
/3P480	3 Phase input of 3 × 480VAC [432 - 528VAC], 50/60Hz
/400HZ	400Hz input frequency
/DC	Any nominal in the input range 250 - 750VDC \pm 10% (eg. 500VDC \pm 10% = 450 - 550VDC input)
	INTERFACES AND CONTROL
/ATE	No front panel control or display
/CE	TFT display
/IEEE488	IEEE 488.2 [GPIB] remote control interface on rear panel
/RS485	RS-485 remote control interface on rear panel
/USB	USB remote control interface on rear panel
	SAFETY AND PROTECTION
/AOP	Active overvoltage protection
/DDS	Decoupling diode
/EMO	DC output emergency off: the DC output is safely short-circuited when the mains supply is switched off
/FD	Freewheeling diode
/LOCK-AC	Interlock for mains input
/LOCK-DC	Interlock for DC output
/POP	Passive overvoltage protection
/SC	Metal cover set with cable glands for input and output terminals
	ISOLATION
/IIO	Models up to 300V _{NOM} built with increased 2000VDC isolation between DC-output and earth
	MECHANICAL
/CC	Conformal coating of PCBs [for the /HP version the /ATE option must also be selected]
/RUG	Ruggedised modifications to protect the unit against shock and vibration (for the /HP version the /ATE option must also be selected)
	FORM FACTOR AND ENCLOSURES
/LR	Integration into a 19" lab rack
/FC	Integration into a flightcase
	GENERAL SPECIFICATIONS
/3Y	3 year warranty
/5Y	5 year warranty

X CUSTOM OPTIONS

Around a third of our units are custom builds or modified in some way. So if you require a custom modification or option please let us know.

OPERATING RANGES AND FEATURES

STANDARD FEATURES

TECHNICAL DATA										
	0 - 15V	16 - 35V	36 - 70V	71 - 120V	121 - 350V	351 - 700V	701 - 900V	901 - 1150V	1151 - 1400V	1401 - 1500V
Static Regulation	±0.1% of	F.S.								
Line Regulation Voltage	±0.02 % F	S.								
Line Regulation Current	±0.02 % F	S.								
Load Regulation	±0.05 % F	S. ±20mV								
Load Regulation Current	±0.05 % F	S. ±20mA								
Dynamic Response (10%-90%)	Typically	<3ms assum	ning an ohn	nic load						
Typical Voltage Ripple (p-p) 20MHz	40mV	80mV	140mV	140mV	900mV	350mV	350mV	400mV	850mV	900mV
Typical Voltage Ripple (p-p) 300kHz	15mV	35mV	60mV	60mV	400mV	250mV	250mV	300mV	500mV	550mV
Typical Voltage Ripple (rms) 20MHz	15mV	35mV	60mV	60mV	400mV	150mV	150mV	150mV	150mV	200mV
Typical Voltage Ripple (rms) 300kHz	10mV	25mV	40mV	40mV	300mV	100mV	100mV	100mV	100mV	150mV
Current Ripple (p-p)	<0.5 % of	F.S. of I _{MAX}								
Current Ripple (rms)	600mA	380mA	260mA	220mA	60mA	30mA	25mA	15mA	12mA	12mA
Rise Time (Full Load)	6ms	6ms	12ms	20ms	20ms	20ms	40ms	40ms	40ms	6ms
Rise Time (No Load)	5ms	5ms	10ms	10ms	10ms	10ms	10ms	20ms	20ms	5ms
Fall Time (Full Load)	15ms	15ms	20ms	20ms	40ms	50ms	60ms	80ms	100ms	25ms
Fall Time (No Load)	tf <5s at \	′a <60V			10s				15s	1s
Voltage Set-Value Accuracy	± 0.1% V _N	IAX								
Current Set-Value Accuracy	±0.2% I _{MA}	±0.2% I _{MAX}								
Relative Voltage Sense Accuracy	±0.5% V _M	_{AX} (relative a	accuracy fo	r worst case	e sense ope	eration)				

OPTIONS

CODE	DESCRIPTION
/2000V	Unit built with 2000V output
/HS	High speed model - secondary rise and fall time shortened by a factor of 10
/PR	Reversible output polarity (only in standby mode)

OPERATING MODES

STANDARD FEATURES

TECHNICAL DATA				
VI Mode	Voltage and current operation mode: voltage and current limit are programmable			
OPTIONS				
CODE	DESCRIPTION			
/HP	Advanced model with constant power, adjsutable resistance & PVsim modes as well as master/slave operation			



504kW

0 to 5120A

HIGHLIGHTED OPTION

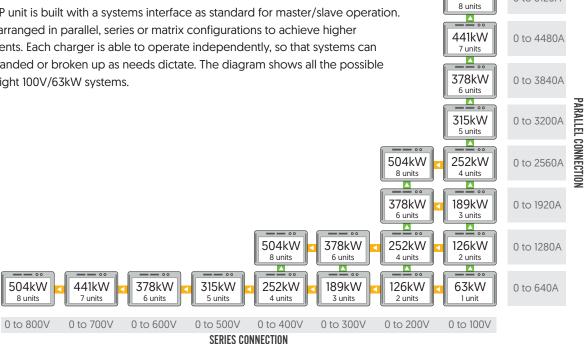
ADVANCED MODELS (/HP)

Advanced BC-HP models are available which feature selection of additional features discussed below.



MASTER/SLAVE OPERATION

Each advanced BC-HP unit is built with a systems interface as standard for master/slave operation. Up to 8 units can be arranged in parallel, series or matrix configurations to achieve higher charge voltages/currents. Each charger is able to operate independently, so that systems can be reconfigured, expanded or broken up as needs dictate. The diagram shows all the possible configurations with eight 100V/63kW systems.



REDUNDANCY

To ensure minimal disruption, redundancy is provided when operating multiple BC-HP units in master/slave. Values set on the master unit are multiplied by number of units in series or parallel (e.g. if you have three chargers in parallel and set 10A on the master unit, each unit will provide 10A for a combined 30A total). If a unit device fails, the remaining chargers continue to provide their preassigned output (e.g. in the example above each charger will would provide 10A for a combined 20A total should one charger fail)

SOFT INTERLOCK

A soft interlock circuit is provided with all advanced BC-HP models. This allows users to connect the unit to an external safety device such as an emergency stop. This feature requires a high signal (+10V) to be present between two pins, otherwise the output will be shutdown.

LARGE LCD DISPLAY

A large LCD display indicates all relevant output quantities simultaneously. Output values can be preset and read prior to releasing the output. If prefered the unit can be built with a blank front panel (option /ATE). The LCD screen cannot be combined with conformal coating [/CC] or ruggedised [/RUG] options, so the units must be built with a blank front panel to choose them.

SD CARD OPTION

An SD card slot can be specified on order with the BC-HP. This is a useful feature to enable the power system to follow predetermined voltage and current charge curves. Data is programmed on a PC using text or .WAV formats. It can then be simply transferred to an SD card and recalled from the front panel of the BC-HP.

The data card can also be used for data logging. Output values can be recorded at intervals of 1 sec to 71 mins. The front panel display indicates when the unit is logging data and will alert the user when the memory card becomes full.



STANDARD FEATURES

TECHNICAL DATA						
	3kW	4kW	5kW	7kW	10kW	15kW
Connection	3 wire (P+N+PE)	5 wire (3P+N+PE)				
Maximum Allowed Non-Symmetry	<3%					
Standard Input Voltage	230VAC ±10%	3 × 400VAC ±10%	5			
Standard Input Frequency	47 - 63Hz					
Standard Input Current ¹	22A _{eff}	9.3A _{eff}	11.6A _{eff}	16.6A _{eff}	23.2A _{eff}	34.7A _{eff}
Recommended Supply Breaker Value and Curve [3 × 400VAC Input]	16A type D/K (Op. /3P400)	16A type D/K	16A type D/K	32A type D/K	32A type D/K	63A type D/K
Input Voltage (Option /1P)	Standard	230VAC ±10%	230VAC ±10%	N/A		
Input Current (Option /IP) ¹	Standard	28A _{eff}	33A _{eff}	N/A		
Input Voltage (Option /3P200)	3 × 200VAC ±10%					
Input Current (Option /3P200) ¹	13.9A _{eff}	18.5A _{eff}	23.2A _{eff}	32.5A _{eff}	46.3A _{eff}	69.4A _{eff}
Input Voltage (Option /3P208)	3 × 208VAC ±10%					
Input Current (Option /3P208) ¹	13.4A _{eff}	17.8A _{eff}	22.3A _{eff}	31.2A _{eff}	44.5A _{eff}	66.7A _{eff}
Input Voltage (Option /3P400)	3 × 400VAC ±10%	Standard				
Input Current (Option /3P400) ¹	7A _{eff}	Standard				
Input Voltage (Option /3P440)	3 × 440VAC ±10%	Š				
Input Current (Option /3P440) ¹	6.4A _{eff}	8.5A _{eff}	10.6A _{eff}	14.8A _{eff}	21.1A _{eff}	31.6A _{eff}
Input Voltage (Option /3P480)	3 × 480VAC ±10%	,				
Input Current (Option /3P480) ¹	5.8A _{eff}	7.8A _{eff}	9.7A _{eff}	13.6A _{eff}	19.3A _{eff}	28.9A _{eff}
Inrush Transient Current ²	<25A	<25A	<25A	<25A	<51A	<51A
Leakage Current	<35mA					
Cos Phi	>0.7					
Harmonic Content ²	50Hz = 72 % 100	Hz = 2 % 150Hz = 0	0.9 % 200Hz = 0.1 %	% 250Hz = 11 % 350	0Hz = 0.6 %	
Efficiency	Up to 94%					

	21kW	30kW	35kW	45kW	49kW	56kW	63kW	
Connection	5 wire (3P+N+	5 wire (3P+N+PE)						
Maximum Allowed Non-Symmetry	<3%	<3%						
Standard Input Voltage	3 × 400VAC ±	10%						
Standard Input Current ¹	48.6A _{eff}	69.4A _{eff}	80.9A _{eff}	104A _{eff}	113.3A _{eff}	129.5A _{eff}	145.6A _{eff}	
Recommended Supply Breaker Value and Curve	63A type D/K	80A type D/K	120A type D/K	120A type D/K	150A type D/K	150A type D/K	180A type D/K	
Input Voltage (Option /3P200)	3 × 200VAC ±	10%						
Input Current (Option /3P208) ¹	97.1A _{eff}	138.7A _{eff}	161.8A _{eff}	208A _{eff}	226.5A _{eff}	258.9A _{eff}	291.2A _{eff}	
Input Voltage (Option /3P208)	3 × 208VAC ±	10%						
Input Current (Option /3P208) ¹	93.4A _{eff}	133.4A _{eff}	155.6A _{eff}	200A _{eff}	217.8A _{eff}	248.9A _{eff}	280A _{eff}	
Input Voltage (Option /3P440)	3 × 440VAC ±	10%						
Input Current (Option /3P440) ¹	44.2A _{eff}	63.1A _{eff}	73.6A _{eff}	94.6A _{eff}	103A _{eff}	117.7A _{eff}	132.4A _{eff}	
Input Voltage (Option /3P480)	3 × 480VAC ±	10%						
Input Current (Option /3P480)1	40.5A _{eff}	57.8A _{eff}	67.4A _{eff}	86.7A _{eff}	94.4A _{eff}	107.9A _{eff}	121.4A _{eff}	
Inrush Transient Current ²	<76A	<102A	<127A	<153A	<178A	<203A	<229A	
Leakage Current	<35mA							
Cos Phi	>0.7							
Harmonic Content ²	50Hz = 72 %	100Hz = 2 % 150	Hz = 0.9 % 200H	Hz = 0.1 % 250Hz	: = 11 % 350Hz =	0.6 %		
Efficiency	Up to 94%							

 $^{^{1}}$ At nominal input voltage. 2 At nominal input voltage, the inrush current only occurs at switch-on.



Ν	Pl	IT	N	PT	ΊN	N	2

CODE	DESCRIPTION
/1P	Input voltage is 230VAC \pm 10% (for models with outputs of 3kW to 5kW only)
/3P200	3 Phase input of 3 × 200VAC [180 - 220VAC], 50/60Hz
/3P208	3 Phase Input of 3 × 208VAC [187 - 229VAC], 50/60Hz
/3P440	3 Phase Input of 3 × 440VAC [396 - 484VAC], 50/60Hz
/3P480	3 Phase Input of 3 × 480VAC [432 - 528VAC], 50/60Hz
/400HZ	400Hz input frequency
/DC	Any nominal in the input range 250 - 750VDC \pm 10% (eg. 500VDC \pm 10% = 450 - 550VDC input)

INTERFACES AND CONTROL

	-	_	
	INFO		
 \sim			

	ANALOGUE INTERFACE (STANDARD)				
Digital Outputs (CV, Standby, Error)	Output type: Open collector with pull-up resistor 10k Ω after +5 V I $_{\text{SINKMAX}}$: 50 mA				
Digital Inputs (Ext. Control, Standby)	Input resistance: $47 \text{k}\Omega$ Maximum input voltage: 50V High level: $\text{V}_{\text{IN}} > 2 \text{V}$ Low level: $\text{V}_{\text{IN}} < 0.8 \text{V}$				
Analog Outputs (Xmon)	Output resistance: 100Ω Minimum permissible load resistance: $2k\Omega$ Minimum load resistance for ± 0.1 % accuracy: $100k\Omega$				
Analog Inputs (Xset)	Input resistance: ${\rm IM}\Omega$ Maximum permissible input voltage: 25V				
Reference Voltage	Reference voltage V $_{\rm REF}$. 10V ± 10 mV Output resistance: <10 Ω Maximum output current: 10 mA [not short-circuit-proof]				
5 V – Supply Voltage	Output voltage: $5V \pm 300 \text{mV}$ Maximum output current: 50 mA (not short-circuit-proof)				
Set Value Accuracy (V/A) When Using Internal Ref.	±0.5%				
Programming Response Time	<10ms				
	RS-232 INTERFACE (STANDARD)				
Signal Inputs (RxD, CTS)	Maximum input voltage: $\pm 25V$ Input resistance: $5 k\Omega$ [Type] Switching thresholds: VH < -3V, VL > +3V				
Signal outputs (TxD, RTS)	Output voltage (at RL >3k Ω): min \pm 5V, Type \pm 9V, max \pm 10V Output resistance: <300 Ω ; Short circuit current: Type \pm 10mA				
	RS-485 INTERFACE (OPTIONAL)				

RS-485 INTERFACE (OPTIONAL)	
± 5V	
>12kΩ	
±60mA Max	
Vd >0.2V	
Vd <-0.2V	

INTERFACE AND CONTROL OPTIONS

CODE	DESCRIPTION
/ATE	No front panel control or display
/CE	TFT display
/IEEE488	IEEE 488.2 (GPIB) remote control interface on rear panel
/RS485	RS-485 remote control interface on rear panel
/USB	USB remote control interface on rear panel

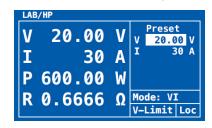
STANDARD BC-HP-E LED SCREEN



TFT DISPLAY (OPTION /CE)

LAB/HP/CE				
Mor	itor	Preset		
W	1500 V	V	1500	٧
v	1300 V	1	42.00	Α
1	42.00 A			
Р	63000 W	LOC	CV	Mode
	05.745	ST	ΛD	V
R	35.715 Ω	<u> </u>	UP	

ADVANCED MODEL LCD SCREEN (OPTION /HP)

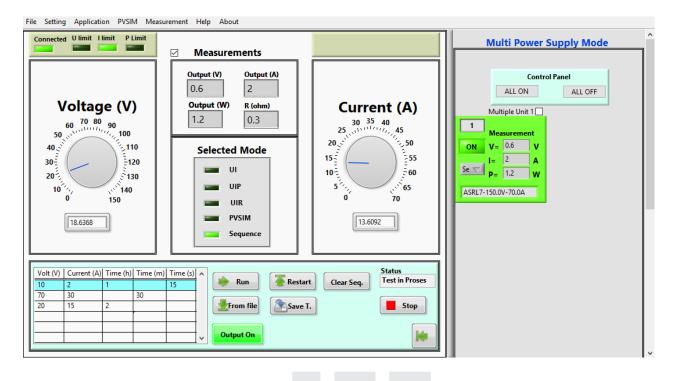


SOFTWARE/SOFT TOOLS

STANDARD SOFTWARE

All new BC-HP-E units are provided with free operating software. Live values of the power systems can be viewed remotely in a simple and intuitive way. This is particularly useful when operating the battery charger in a location that is remote to the battery.

Voltage and current values can be controlled through the GUI. A sequence function allows for more complex DC charge waveforms to be implemented directly through the software.





SAFETY AND PROTECTION

STANDARD FEATURES

TECHNICAL DATA		
Over Voltage Protection	Adjustable between 0 % and 120 % of full voltage range	
Over Current Protection	Limited by the current setpoint	
Over Temperature Protection	If the internal heat sink temperature rises above 90°C the device will automatically shut down	
Under Voltage Lock Out	If the set limit is reached then the device will automatically shut down	

OPTIONS

CODE	DESCRIPTION
/DDS	Decoupling diode
/FD	Freewheeling diode
/LOCK-AC	Interlock for mains input
/LOCK-DC	Interlock for DC output
/POP	Passive overvoltage protection
/SC	Metal cover set with cable glands for input and output terminals

ISOLATION

STANDARD FEATURES

TECHNICAL DATA	
Isolation (Between Primary and Secondary)	3000VAC
Isolation (Between DC-Output and Earth)	500VDC (0-300V models) 2000VDC (301-1500V models)
Isolation (Between Primary and Earth)	2150VDC

OPTIONS

CODE	DESCRIPTION
/IIO	Models up to $300V_{\text{\tiny NOM}}$ built with increased 2000VDC isolation between DC-output and earth

MECHANICAL

STANDARD FEATURES

AMBIENT CONDITIONS		
Cooling	Forced air, front to back	
Operating Temperature	0 to 50°C	
Storage Temperature	-20°C to 70°C	
Humidity	<80%	
Operating Altitude	<2000m	
Fan Noise	42 – 43 dB	

OPTIONS

CODE	DESCRIPTION
/CC	Conformal coating of PCBs [for the /HP version the /ATE option must also be selected]
/RUG	Ruggedised modifications to protect the unit against shock and vibration (for the /HP version the /ATE option must also be selected)

HIGHLIGHTED OPTIONS



RUGGEDISED MODIFCATIONS (/RUG)

Modifications can be made to the BC-HP-E to ensure suitability in harsh conditions by providing protection against shock and vibration. This is often ideal for companies who regularly need to move equipment to different sites, to mitigate the risk of any potential transit damage.



The PCBs of the units are coated with a solution to protect against environmental conditions such as condensing humidity, as well as providing resistance against salt moisture. This option can also be combined with /RUG.

FORM FACTOR AND ENCLOSURES

STANDARD FEATURES

WEIGHTS AND DIMENSIONS		
3kW-7kW Models ¹	19" × 2U × 440mm (W × H × D), 14kg	
10kW Models ²	19" × 2U × 600mm (W × H × D), 26kg	
15kW Models ³	19" × 3U × 620mm (W × H × D), 26kg	
21kW Models ⁴	19" × 3U × 620mm (W × H × D), 37kg	
30kW Models	19" × 6U × 620mm (W × H × D), 52kg	
35kW Models⁵	19" × 6U × 620mm (W × H × D), 59kg	
45kW Models ⁶	19" × 6U × 620mm (W × H × D), 73kg	
49kW Models	19" × 9U × 620mm (W × H × D), 85kg	
56kW Models	19" × 9U × 620mm (W × H × D), 92kg	
63kW Models	19" × 9U × 620mm (W × H × D), 99kg	

- 1 4-5kW/15V models and 7kW models ≤25V have dimensions of 19" × 2U × 600mm. 2 Models ≤50V have dimensions of 19" × 3U × 620mm.
- ³ 15V models have dimensions of 19" × 6U × 620mm. ⁴ Models ≤25V have dimensions of 19" × 6U × 620mm. ⁵ 20V models have dimensions of 19" × 9U × 620mm.
- ⁶ Models ≤35V have dimensions of 19" × 9U × 620mm.

DESKTOP UNITS

On request, your choice of BC-HP-E can be built without rackmounting flanges for no extra cost. This allows the unit to be used on a desktop or bench.



ENCLOSURE OPTIONS

Units can be treated to a laboratory rack or flight case integration. Having a programmable power system mounted into a flight case on castors is often advantageous, especially when several departments or test cells share the same equipment.

Multiple power systems can be fitted into the same flight case. Door hangers are fitted for convenience. Existing ETPS systems can also be retrospectively integrated into new flight cases where requested.

CODE	DESCRIPTION
/LR	Integration into a 19" lab rack
/FC	Integration into a flightcase



GENERAL SPECIFICATIONS

STANDARD FEATURES

EMC AND SAFETY STANDARDS		
Safety	EN 61010-1:2010+A1;2019	
EMC	EN 61326-1:2013	
RoHS	EN IEC 63000:2018	
Standard Warranty	1 year	

OPTIONS

CODE	DESCRIPTION
/3Y	3 year warranty
/5Y	5 year warranty

RENTAL SYSTEMS

If your test requirement is short term, we have multiple advanced LAB-HP units in our rental DC source range which will operate as battery chargers. These include 60V, 120V and 150V systems up to 30kW.



Every effort is made to ensure that the information provided within this technical summary is accurate. However, ETPS Ltd must reserve the right to make changes to the published specifications without prior notice. Where certain operating parameters are critical for your application we advise that they be confirmed at the time of order. ETPS Ltd specialises in modifying its proven platforms to suit your needs. Please contact our office if your requirement is non-standard. Please note that your actual unit may differ from those shown.





ETPS engineer electronic power supply and testing systems. Our problem solving skills provide the spark of innovation to some of the world's leading technology brands.



