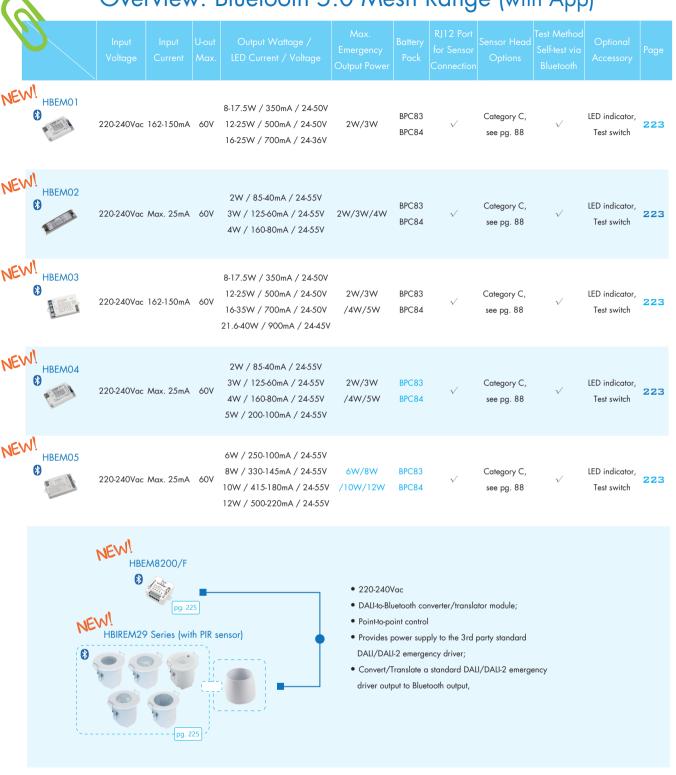


Emergency LED Drivers & Inverters



Overview: Bluetooth 5.0 Mesh Range (with App)



Overview: Non-Bluetooth

HEMO2 19mA 220-240Vac 15mA 18mA 68V 40mA (60V); 320mA (8V) 3W BPC02 BPC10 BPC11 BPC12 BPC13 BPC14 BPC14 BPC14 BPC14 BPC15 BPC14 BPC16 BPC17 BPC18 BPC19		O VOI VICVV. I VOII-DIOCIOOIII										
HEMO2 220-240Vac 21mA 68V 40mA (60V); 320mA (8V) 3W BPC02 BPC10 BPC11 BPC01 BPC11 BPC01 BPC11 BPC01 BPC11 BPC01 BPC11 BPC02 BPC10 BPC11 BPC01 BPC11 BPC01 BPC01 BPC11 BPC01 BPC01 BPC02 BPC02 BPC10 BPC11 BPC01 BPC02 BPC02 BPC01 BPC01 BPC01 BPC02 BPC02 BPC01 BPC01 BPC02 BPC02 BPC01 BPC01 BPC01 BPC11 BPC01 BPC10 BPC11 BPC01 BPC	5							for Sensor		Self-test via		Page
### 1500 16mA		220-240Vac		68V	40mA (60V); 320mA (8V)	3W	BPC02 BPC10			Manual test	Test switch, Insulated terminal	227
HEM06-T 220-240Vac 13mA- 16mA 75V 3W / 260mA-40mA / 12-70V 6W BPC14 BPC20 Test switch, BPC14 BPC20 Self-test Insulated 22 Terminal Cover HEM07-T 220-240Vac 15mA 65V 40mA (55V) 230mA (12V) 3W BPC02 BPC10 Self-test Insulated 22 Test switch, BPC14 BPC20 Self-test Insulated 22 Test switch, Test switch, Test switch, Test switch, BPC10 Self-test Insulated 22 Test switch, Test switch, BPC10 Self-test Insulated 22 Test switch, Test switch, Test switch, Test switch, Test switch, Test switch, BPC10 Self-test Insulated 22 Terminal Cover	НЕМО7	220-240Vac		68V	40mA (60V); 300mA (9V)	3W	BPC02 BPC10			Manual test		227
220-240Vac 15mA - 65V 40mA (55V) 230mA (12V) 3W BPC10 BPC10 LED indicator, Test switch	НЕМО6-Т	220-240Vac		75V			BPC14			Self-test	Test switch, Insulated Terminal	227
	НЕМО7-Т	220-240Vac		65V	40mA (55V) 230mA (12V)	3W	BPC02 BPC10			Self-test		228
HEMO9 18W/ 350mA /10-52V 26W/ 500mA /10-52V 26W/ 500mA /10-52V 3W BPC30 SAM7, Test switch, 30W/ 700mA /10-43V 6W BPC31 SAM7/AA Terminal Cover	НЕМО9	220-240Vac		62V	26W/ 500mA /10-52V 28W/ 550mA /10-52V 30W/ 700mA /10-43V 30W/ 750mA /10-40V	4W		\checkmark	SAM7/FM	Self-test	Test switch, Insulated Terminal	226
HEM09H 30W/900mA/10~33V 3W SAM7, Test switch, 30W/1050mA/10~29V 4W BPC30 SAM7/FM Self-test Insulated 22 SW/1200mA/10~14V BPC31 SAM7/AA Terminal Cover	НЕМО9Н	220-240Vac		33V	30W/1050mA/10~29V 25W/1200mA/10~21V	4W		√	SAM7/FM	Self-test	Test switch, Insulated Terminal	226

Overview: Batteries

	Battery Type & Specification	Size (mm)	Duration	Accessories	Page	
BPC83	LiFePO4, 6.4V, 3.4Ah	110x55x27	>3h @3W >3h @2W	Battery bracket, LED indicator, Test switch	228	
BPC84	LiFePO4, 6.4V, 3.4Ah	170x30x27	>3h @3W >3h @2W	Battery bracket, LED indicator, Test switch	228	
BPC01	3 cells, C type, NiMH battery, 3.6V, 4.0AH	235x22x22	>3h @3W	Battery bracket, green LED indicator, Test switch (optional)	228	
BPC02	3 cells, C type, NiMH battery, 3.6V, 4.0AH	77x50x28	>3h @3W	Battery bracket, green LED indicator, test switch (optional)	228	
BPC05	6 cells, SC type, NiMH battery, 7.2V, 2.5AH	168x50x28	>3h @3W	Battery bracket, Green LED indicator, Buzzer, Test switch	229	
BPC10	3 cells, D type, D4000, Nicd battery, 3.6V, 4.0AH	215x37x37.5	>3h @3W	Battery bracket, green LED indicator, Test switch (optional)	228	
BPC11	3 cells, D type, D4000, Nicd battery, 3.6V, 4.0AH	100x65x36	>3h @3W	Battery bracket, green LED indicator, Test switch (optional)	228	
BPC14	6 cells, SC type, SC1800, Nicd battery, 7.2V, 1.8AH	165x46x27	>3h @3W	Battery bracket, Green LED indicator, Buzzer, Test switch	229	
BPC20	6 cells, D type, D4000, Nicd battery, 7.2V, 4.0Ah	230x72.5x39.5	>3h @6W	Battery bracket, Green LED indicator, Buzzer, Test switch	229	
BPC30	6 cells, SC type NiCd battery, 7.2V, 1.8Ah	175×50×30	>3h @3W >1.5h @4W >1.5h @6W	Battery bracket, Green LED indicator, Buzzer, Test switch	229	
BPC31	6 cells, SC type NiMH battery, 7.2V, 1.8Ah	190x33x30	>3h @3W >1.5h @4W >1.5h @6W	Battery bracket, Green LED indicator, Buzzer, Test switch	229	

Full Product Specifications - - - HBEM01 & HBEM02 & HBEM03 & HBEM04 & HBEM05 + Sensor head

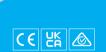
Common Highlight Features for HBEM series:

- Bluetooth 5.0 SIG Mesh (*See full details on pg. 01-02)
- Input: 220V-240VAC, 50/60Hz
- Constant Emergency Wattage (CW)
- Multiple current selection / emergency power / time selection via DIP-Switches
- Four emergency working modes for options

- Monthly / Yearly self-test with auto report generation
- Retrievable usage data and history record
- Automatic email notification when detecting fault
- Works with LiFePO, battery
- Optional motion sensor pluggable (Sensor-Dim)
- Optional LED indicator & test switch accessory







- Emergency driver
- Constant Current (CC)
- Size: L * W * H = 108mm * 69mm * 22.2mm
- Max. emergency output power: 2W / 3W
- Max. loading: 25W
- Dimmable (via Bluetooth & Switch-Dim)
- Switch-Dim (PUSH) terminal
- Max. Output Power/Current/Voltage range: 8-17.5w / 350mA / 24-50V, 12-25VV / 500mA / 24-50V 16-25W / 700mA / 24-36V







- Constant Current (CC)
- Size: L * W * H = 140.6mm * 79.2mm * 23mm
- Max. emergency output power: 2W / 3W / 4W
- Max. loading: 45W
- Switch-Dim (PUSH) terminal
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range: 8-17.5w / 350mA / 24-50V, 12-25W / 500mA / 24-50V 16-35W / 700mA / 24-50V, 21.6-40W / 900mA / 24-45V









Suitable for

















- Emergency inverter (for on/off)
- Size: L * W * H = 160mm * 40.5mm * 22mm
- Max. emergency output power: 2W / 3W / 4W
- Max. Output Power/Current/Voltage range: 2W / 85-40mA / 24-55V, 3W / 125-60mA / 24-55V 4W / 160-80mA / 24-55V



HBEM04





- Emergency inverter (for DALI dimmable driver)
- Size: L * W * H = 108mm * 69mm * 22.2mm
- \blacksquare Max. emergency output power: 2W / 3W / 4W / 5W
- Max. loadina: 5W
- Switch-Dim (PUSH) terminal
- Max. Output Power/Current/Voltage range: 2W / 85-40mA / 24-55V, 3W / 125-60mA / 24-55V 4W / 160-80mA / 24-55V, 5W / 200-100mA / 24-55V
- Emergency inverter (for DALI dimmable driver)
- Size: L * W * H = 140.6mm * 79.2mm * 23mm
- Max. emergency output power: 6W / 8W / 10W / 12W
- Max. loading: 12W
- Switch-Dim (PUSH) terminal
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range: 6W / 250-100mA / 24-55V, 8W / 330-145mA / 24-55V 10W / 415-180mA / 24-55V, 12W / 500-220mA / 24-55V



Free Combination! (Total 20 sensor head options, applicable to HBEMO1, HBEMO2, HBEMO3, HBEMO4 & HBEMO5)

Full Product Specifications - - - HBEM01 & HBEM02 & HBEM03 & HBEM04 & HBEM05 + Sensor head



See pg. 91

See pg. 91





- Bluetooth 5.0 SIG Mesh (*See full details on pg. 05-11)
- Input: 220V-240VAC, 50/60Hz
- DALI-to-Bluetooth converter/translator module
- Convert/Translate a standard DALI/DALI-2 emergency driver output to Bluetooth output, so that user can view, edit & manage the emergency system through high-end Koolmesh platform
- User can then enjoy all the powerful & convenient features in Koolmesh platform, including automatic email notification upon detecting fault, automatic monthly/yearly (functional/duration test) emergency report generation etc...
- Point-to-point control: 1 pc HBEM8200/F module for 1 pc 3rd party DALI/DALI-2 emergency driver
- HBEM8200/F & the 3rd party standard DALI/DALI-2 emergency driver does not connect to central DALI PSU. HBEM8200/F provides power supply to the 3rd party standard DALI/DALI-2 emergency driver
- With Bluetooth gateway HBGW01, user can remotely control the emergency system via Koolmesh mobile/tablet app & web app platform
- Module settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals

NEW!

HBIREM29 Series



Technical Data & Specifications

- Input: 220-240VAC 50/60Hz
- Output (Max Loading): 80mA DALI power supply
- Warming-up period: 20s
- Passive infrared (PIR) detection
- Ta: -20°C ~ +50°C

Features & Functions

- \$Bluetooth® 5.0 SIG Mesh (*See full details on pg. 05-11)
- DALI-to-Bluetooth converter/translator module
- Convert/Translate a standard DALI/DALI-2 emergency driver output to Bluetooth output, so that user can view, edit & manage the emergency system through high-end Koolmesh platform
- User can then enjoy all the powerful & convenient features in Koolmesh platform, including automatic email notification upon detecting fault, automatic monthly/yearly (functional/duration test) emergency report generation etc...
- Point-to-point control: 1 pc HBIREM29 module for 1 pc 3rd party DALI/DALI-2 emergency driver

- Tri-level dimming & Daylight harvest (*See pg. 19-21)
- Daylight sensor: Photocell, except HBIREM29/W: Photodiode (PD)
- Active Lux Switching technology (*See pg. 15)
- Presence mode / Absence mode (Auto / Semi-auto) (*See pg. 26)
- HBIREM29 & the 3rd party standard DALI/DALI-2 emergency driver does not connect to central DALI PSU. HBEM8200/F provides power supply to the 3rd party standard DALI/DALI-2 emergency driver
- With Bluetooth gateway HBGW01, user can remotely control the emergency system via Koolmesh mobile/tablet app & web app platform
- Sensor settings via mobile/tablet app & PC web platform
- 2 Switch-Dim (PUSH) terminals
- Optional IP20/IP65 ceiling mount box accessory HA03
- Optional blind insert / blanking plate accessory (Not applicable on HBIR29/W, HBIR29/RH)
- \blacksquare Tool-free installation: removable terminal blocks and clips





- Constant Current (CC)
- Constant Emergency Wattage (CW)
- Size: L * W * H = 140.6mm * 79.2mm * 23 mm
- Input: 220V-240VAC, 50/60Hz
- Max. emergency output power: 3W / 4W / 6W
- Dual wattage and duration selection: >3h @3W; >1.5h @4W; >1.5h @6W
- Multiple current selection / emergency power via DIP-Switches
- Automatic output current adjustment
- With self-testing function, maintenance free
- Wide range of LEDs in series (10~52V)
- Works with NiMH battery / Nicd battery
- 1-10V dimming control with relay output
- Switch-Dim (PUSH) terminal
- Three protection mode with auto-retart
- Sensor settings via handset HRC-05
- Optional motion sensor pluggable (Sensor-Dim)
- Optional LED indicator & test switch accessory
- \blacksquare Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range:
 18W/ 350mA /10-52V, 26W/ 500mA /10-52V
 28W/ 550mA /10-52V, 30W/ 700mA /10-43V
 30W/ 750mA /10-40V, 23W/ 900mA /10-25V



- Constant Current (CC)
- Constant Emergency Wattage (CW)
- Size: L * W * H = 140.6mm * 79.2mm * 23 mm
- Input: 220V-240VAC, 50/60Hz
- Max. emergency output power: 3W / 4W / 6W
- Dual wattage and duration selection: >3h @3W; >1.5h @4W; >1.5h @6W
- Multiple current selection / emergency power via DIP-Switches
- Automatic output current adjustment
- With self-testing function, maintenance free
- Wide range of LEDs in series (10~33V)
- Works with NiMH battery / Nicd battery
- 1-10V dimming control with relay output
- Switch-Dim (PUSH) terminal
- Three protection mode with auto-retart
- Sensor settings via handset HRC-05
- Optional motion sensor pluggable (Sensor-Dim)
- Optional LED indicator & test switch accessory
- Optional terminal-caps for stand-alone installation
- Max. Output Power/Current/Voltage range: 30W/900mA/10~33V, 30W/1050mA/10~29V 25W/1200mA/10~21V, 20W/1400mA/10~14V



Free Combination!
(Total 3 sensor head options, applicable to HEM09 & HEM09H)









- Constant Current (CC)
- Size: L * W * H = 150mm * 53.5mm * 30.5mm
- Input: 220V-240VAC, 50/60Hz
- Max. emergency output power: 3W
- Automatic output current adjustment
- With manual test function
- Wide range of LEDs in series (8~60V)
- Three protection mode with auto-retart
- Deep discharge protection
- Works with NiMH battery / Nicd battery
- Optional LED indicator & test switch accessory
- Optional terminal-caps for stand-alone installation

Constant Current (CC)
Size: L * W * H = 150mm * 53.5mm * 30.5mm
Input: 220V-240VAC, 50/60Hz
Max. emergency output power: 3W
Dual wattage and duration selection: 3W @ 3hrs; 6W @ 1h
Automatic output current adjustment
With self-testing function, maintenance free
Wide range of LEDs in series (12~70V)
Three protection mode with auto-retart
Deep discharge protection
Works with NiMH battery / Nicd battery
Optional LED indicator & test switch accessory
Optional terminal-caps for stand-alone installation





- Constant Current (CC)
- Size: L * W * H = 160mm * 40.5mm * 22mm
- Input: 220V-240VAC, 50/60Hz
- Max. emergency output power: 3W
- Automatic output current adjustment
- With manual test function
- Wide range of LEDs in series (9~60V)
- Three protection mode with auto-retart
- Deep discharge protection
- Works with NiMH battery / Nicd battery
- Optional LED indicator & test switch accessory





- Constant Current (CC)
- Size: L * W * H = 180mm * 40.5mm * 22mm
- Input: 220V-240VAC, 50/60Hz
- Max. emergency output power: 3W
- Dual wattage and duration selection: 3W @ 3hrs; 3W @ 1h
- Automatic output current adjustment
- With self-testing function, maintenance free
- Wide range of LEDs in series (12~55V)
- Three protection mode with auto-retart
- Deep discharge protection
- Works with NiMH battery / Nicd battery
- Optional LED indicator & test switch accessory

Batteries



Capacity: 3.4Ah Size: 110 * 55 * 27 (mm)

Duration: > 3h @ 3W Recharge time: 16h

Accessories:

Battery bracket, LED indicator, Test switch



Capacity: 3.4Ah

Size: 170 * 30 * 27 (mm)

Duration: > 3h @ 3W

Recharge time: 16h

Accessories:

Battery bracket, LED indicator, Test switch

BPC01



Voltage: 3.6V Capacity: 4.0Ah

Size: 235 * 22 * 22 (mm)

Duration: > 3h @ 3W Recharge time: 16h

Accessories:

Battery bracket, LED indicator, Test switch

BPC02



Voltage: 3.6V

Capacity: 4.0Ah Size: 77 * 50 * 28 (mm)

Duration: > 3h @ 3W

Recharge time: 16h

Accessories:

Battery bracket, LED indicator, Test switch

BPC10



Capacity: 4.0Ah

Size: 215 * 37 * 37.5 (mm)

Duration: > 3h @ 3W Recharge time: 16h

Accessories:

Battery bracket, LED indicator, Test switch

BPC11



Voltage: 3.6V Capacity: 4.0Ah

Size: 100 * 65 * 36 (mm) Duration: > 3h @ 3W Recharge time: 16h

Accessories:

Battery bracket, LED indicator, Test switch

Options for HEMO6-T

BPC05

Voltage: 7.2V Capacity: 2.5Ah

Size: 168 * 50 * 28 (mm)

Duration: > 3h @ 3W Recharge time: 16h

Accessories:

Battery bracket, LED indicator, Test switch

BPC14

Voltage: 7.2V

Capacity: 1.8Ah

Size: 165 * 46 * 27 (mm)

Duration: > 3h @ 3W

Recharge time: 16h

Accessories:

Battery bracket, LED indicator, Test switch

BPC20

Voltage: 7.2V

Capacity: 4.0Ah

Size: 230 * 72.5 * 39.5 (mm)

Duration: > 3h @ 6W Recharge time: 16h

Accessories:

Battery bracket, LED indicator, Test switch

Options for HEM09, HEM09/H:

BPC30



Capacity: 1.8Ah

Size: 175 * 50 * 30 (mm)

Duration: > 3h @ 3W; > 1.5h @ 4W; > 1.5h @ 6W

Recharge time: 16h

Accessories:

Battery bracket, LED indicator, Test switch

BPC31



Voltage: 7.2V Capacity: 1.8Ah

Size: 190 * 33 * 30 (mm)

Duration: > 3h @ 3W; > 1.5h @ 4W; > 1.5h @ 6W

Recharge time: 16h

Accessories:

Battery bracket, LED indicator, Test switch