



SINCE 1945
KEYSTONE

CELEBRATING **75** YEARS

SMART//SAFE[®]
LED EMERGENCY BACK-UP

1-Piece Enclosed LED Emergency Back-Up with Slim Profile Case



1-PIECE ENCLOSED LED EMERGENCY BACK-UP WITH SLIM PROFILE CASE

Enables emergency lighting solutions to be incorporated into a variety of new and existing LED fixtures. Simply install the unit directly into the fixture, tying into both the existing AC driver and LED module(s).

FEATURES AND BENEFITS

- Adds emergency lighting capability to multiple fixture types
- Slim profile case allows for installation within restrictive and narrow channel spaces of strip and troffer fixtures
- 2-in-1 LED test switch and indicator light provides instant reassurance that the system is working
- Evaluated to UL 924 requirements; UL Classified for field installation
- Reliable operation with minimum 90 minute duration



Catalog Number	Wire Type	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS		
		Input Voltage	Power Factor	Maximum Current	Output Power	Rated Output Current	Output Voltage
5W CALIFORNIA COMPLIANT (COMPLIES WITH CEC T20 EFFICIENCY REQUIREMENTS)							
KT-EMRG-LED-5C-500-SEN	Push-in Connectors	120-277Vac	≥0.9	0.050A @ 120V	5W	250mA-86mA	20-60Vdc

AC LED Emergency Back-Up



LED EMERGENCY BACK-UP FOR INTEGRATED LED PRODUCTS

Enables emergency lighting solutions to be incorporated into a variety of lighting fixtures using integrated LED lighting components where only the input wires of the LED load are accessible.

FEATURES AND BENEFITS

- Illuminates entire LED load at reduced output under emergency mode
- 2-in-1 LED test switch and indicator light provides instant reassurance that the system is working
- One-piece design with metal housing
- Evaluated to UL 924 requirements
- Reliable operation with minimum 90 minute duration



OPTIMIZED FOR TYPE B LED TUBES

Catalog Number	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS		
	Input Voltage	Power Factor	Maximum Current	Maximum Output Power	Rated Output Current	Output Voltage
KT-EMRG-LED-5-500-AC	120-277Vac	≥0.35	100mA @ 120Vac	5W	Load Dependent	40~300Vdc
KT-EMRG-LED-12-1200-AC	120~277Vac	≥0.35	100mA @120Vac	12W	Load Dependent	40~100Vdc



Optimized for Keystone single-ended DirectDrive LED tubes.
Also compatible with KT-LED10.5T8-48G-8xx-DX2 /G2 and KT-LED18.5-T8-48GC-8xx-DX2 /G2. Contact Keystone for details on functioning with other Type B LED tubes.

OPTIMIZED FOR RECESSED AND INTEGRATED FIXTURES

Catalog Number	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS		
	Input Voltage	Power Factor	Maximum Current	Maximum Output Power	Rated Output Current	Output Voltage
KT-EMRG-LED-5-500-AC / DF	120-277Vac	≥0.35	100mA @ 120Vac	5W	Load Dependent	40~300Vdc



Optimized for recessed LED downlight fixtures and retrofit kits and Keystone DirectDrive compact lamps.
Contact Keystone for details on compatibility with other product types.

1-Piece Enclosed LED Emergency Back-Up



1-PIECE ENCLOSED LED EMERGENCY BACK-UP

Enables emergency lighting solutions to be incorporated into a variety of new and existing LED fixtures. Simply install the unit either directly into the fixture or via remote mounting, tying into both the existing AC driver and LED module(s).

FEATURES AND BENEFITS

- Adds emergency lighting capability to multiple fixture types
- Remote mounting means no interference with the sleek design of LED architectural fixtures
- 2-in-1 LED test switch and indicator light provides instant reassurance that the system is working
- Evaluated to UL 924 requirements; UL Classified for field installation
- Reliable operation with minimum 90 minute duration



Catalog Number	Wire Type	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS		
		Input Voltage	Power Factor	Maximum Current	Output Power	Rated Output Current	Output Voltage
5W							
KT-EMRG-LED-5-500-EN	Standard Side Exit	120-277Vac	≥0.5	0.051A @ 120V	5W	250mA-100mA	20-54Vdc
KT-EMRG-LED-5-500-EN /DF	Dual Flex Cable	120-277Vac	≥0.5	0.051A @ 120V	5W	250mA-100mA	20-54Vdc
KT-EMRG-LED-5-500-EN /RJSF	Rear Junction, Single Flex	120-277Vac	≥0.5	0.051A @ 120V	5W	250mA-100mA	20-54Vdc
12W							
KT-EMRG-LED-12-1200-EN	Standard Side Exit	120-277Vac	≥0.5	0.051A @ 120V	12W	550mA-245mA	20-54Vdc
KT-EMRG-LED-12-1200-EN /DF	Dual Flex Cable	120-277Vac	≥0.5	0.051A @ 120V	12W	550mA-245mA	20-54Vdc
KT-EMRG-LED-12-1200-EN /RJSF	Rear Junction, Single Flex	120-277Vac	≥0.5	0.051A @ 120V	12W	550mA-245mA	20-54Vdc
12W CALIFORNIA COMPLIANT (COMPLIES WITH CEC T20 EFFICIENCY REQUIREMENTS)							
KT-EMRG-LED-12C-1200-EN	Standard Side Exit	120-277Vac	≥0.9	0.051A @ 120V	12W	600mA-206mA	20-60Vdc
KT-EMRG-LED-12C-1200-EN /DF	Dual Flex Cable	120-277Vac	≥0.9	0.050A @ 120V	12W	600mA-206mA	20-60Vdc
IP67 RATED 12W CALIFORNIA COMPLIANT (COMPLIES WITH CEC T20 EFFICIENCY REQUIREMENTS)							
KT-EMRG-LED-12C-1200-67 /SF*	Single Flex Cable	120-277Vac	≥0.9	0.050A @ 120V	12W	600mA-206mA	20-60Vdc
20W SELF-DIAGNOSTIC							
KT-EMRG-LED-20SD-2000-EN /DF	Dual Flex Cable	120-277Vac	>0.9	0.060A @ 120V	20W	1000mA-333mA	20-60Vdc

*Special order only

2-Piece LED Emergency Back-Up and Kits



FEATURES AND BENEFITS

- Short circuit overload and open load protection
- Battery pack with quick connect
- 2-in-1 LED test switch and indicator light provides instant reassurance that the system is working
- Evaluated to UL 924 requirements; UL Classified for field installation
- Reliable operation with minimum 90 minute duration



STANDARD LED EMERGENCY BACK-UP FOR LED FIXTURES INCLUDES EMERGENCY LED DRIVER AND BATTERY

Enables emergency lighting solutions to be incorporated into a variety of new and existing LED fixtures, tying into both the existing AC driver and LED modules.



Catalog Number	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS			
	Input Voltage	Power Factor	Maximum Current	Maximum Output Power	Rated Output Current	Output Voltage	LED Module Included
STANDARD							
KT-EMRG-LED-5-500 /A	120-277Vac	≥0.5	0.051A @ 120V	5W	250mA-100mA	20~54Vdc	No
KT-EMRG-LED-12-1200 /A	120-277Vac	≥0.5	0.051A @ 120V	12W	550mA-245mA	20~54Vdc	No
NARROW BATTERY							
KT-EMRG-LED-5-500 /NB	120-277Vac	≥0.5	0.051A @ 120V	5W	250mA-100mA	20~54Vdc	No
KT-EMRG-LED-12-1200 /NB	120-277Vac	≥0.5	0.051A @ 120V	12W	550mA-245mA	20~54Vdc	No
CALIFORNIA COMPLIANT (COMPLIES WITH CEC T20 EFFICIENCY REQUIREMENTS)							
KT-EMRG-LED-5C-500	120-277Vac	>0.9	0.050A @ 120V	5W	250mA-86mA	20~60Vdc	No
KT-EMRG-LED-9C-900-2*	120-277Vac	>0.9	0.050A @ 120V	9W	450mA-150mA	20~60Vdc	No
KT-EMRG-LED-12C-1200	120-277Vac	>0.9	0.050A @ 120V	12W	600mA-206mA	20~60Vdc	No

*Operates for 120 minutes

STANDARD LED EMERGENCY BACK-UP KITS INCLUDES EMERGENCY LED DRIVER, BATTERY, AND LED MODULE

Enables emergency lighting solutions to be incorporated into a variety of lighting fixtures including both LED and fluorescent.

Catalog Number	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS			
	Input Voltage	Power Factor	Maximum Current	Maximum Output Power	Rated Output Current	Output Voltage	LED Module Included
KT-EMRG-LED-5-500-K1	120-277Vac	≥0.5	0.030A @ 120V	5W	400mA-100mA	12~41Vdc	Yes
KT-EMRG-LED-12-1200-K1	120-277Vac	≥0.5	0.070A @ 120V	12W	1000mA-200mA	12~41Vdc	Yes
12W CALIFORNIA COMPLIANT (COMPLIES WITH CEC T20 EFFICIENCY REQUIREMENTS)							
KT-EMRG-LED-12C-1200-K1	120-277Vac	>0.9	0.050A @ 120V	12W	600mA-206mA	20~60Vdc	Yes

California Compliant LED Emergency Back-Up



FEATURES AND BENEFITS

- Complies with CEC T20 efficiency requirements
- LiFePo battery technology
- Evaluated to UL 924 requirements; UL Classified for field installation
- Reliable operation with minimum 90 minute duration
- 2-in-1 LED test switch and indicator light provides instant reassurance that the system is working



LED EMERGENCY BACK-UP (INCLUDES EMERGENCY LED DRIVER AND BATTERY)

Catalog Number	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS			LED Module Included
	Input Voltage	Power Factor	Maximum Current	Maximum Output Power	Rated Output Current	Output Voltage	
KT-EMRG-LED-5C-500	120-277Vac	>0.9	0.050A @ 120V	5W	250mA-86mA	20~60Vdc	No
KT-EMRG-LED-9C-900-2*	120-277Vac	>0.9	0.050A @ 120V	9W	450mA-150mA	20~60Vdc	No
KT-EMRG-LED-12C-1200	120-277Vac	>0.9	0.050A @ 120V	12W	600mA-206mA	20~60Vdc	No

*Operates for 120 minutes

LED EMERGENCY BACK-UP KIT (INCLUDES EMERGENCY LED DRIVER, BATTERY, AND LED MODULE)

Catalog Number	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS			LED Module Included
	Input Voltage	Power Factor	Maximum Current	Maximum Output Power	Rated Output Current	Output Voltage	
KT-EMRG-LED-12C-1200-K1	120-277Vac	>0.9	0.050A @ 120V	12W	600mA-206mA	20~60Vdc	Yes

1-PIECE ENCLOSED LED EMERGENCY BACK-UP

Catalog Number	Wire Type	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS			LED Module Included
		Input Voltage	Power Factor	Maximum Current	Output Power	Rated Output Current	Output Voltage	
5W								
KT-EMRG-LED-5C-500-SEN	Push-in Connectors	120-277Vac	≥0.9	0.050A @ 120V	5W	250mA-86mA	20~60Vdc	No
12W								
KT-EMRG-LED-12C-1200-EN	Standard Side Exit	120-277Vac	≥0.9	0.051A @ 120V	12W	600mA-206mA	20~60Vdc	No
KT-EMRG-LED-12C-1200-EN /DF	Dual Flex Cable	120-277Vac	≥0.9	0.051A @ 120V	12W	600mA-206mA	20~60Vdc	No
IP67 RATED 12W CALIFORNIA COMPLIANT (COMPLIES WITH CEC T20 EFFICIENCY REQUIREMENTS)								
KT-EMRG-LED-12C-1200-67 /SF*	Single Flex Cable	120-277Vac	≥0.9	0.050A @ 120V	12W	600mA-206mA	20~60Vdc	No
20W SELF-DIAGNOSTIC								
KT-EMRG-LED-20SD-2000-EN /DF	Dual Flex Cable	120-277Vac	>0.9	0.060A @ 120V	20W	1000mA-333mA	20~60Vdc	No

*Special order only

Fluorescent Emergency Back-Up



LINEAR FLUORESCENT EMERGENCY BALLASTS

No. of Lamps in Fixture	Catalog Number	Input Voltage	Light Output	Illumination Time	Battery
T8 & T12 Linear					
1-4	KT-EMRG-500 /B	120/277V, 60 Hz	500 Lumens	90 Minutes	NiCd
	KT-EMRG-700 /B	120/277V, 60 Hz	700 Lumens	90 Minutes	NiCd
	KT-EMRG-1400 /B	120/277V, 60 Hz	1,400 Lumens	90 Minutes	NiCd
T8 & T12 Linear Slim Can					
1-4	KT-EMRG-500-SL /B	120/277V, 60 Hz	500 Lumens	90 Minutes	NiCd
	KT-EMRG-700-SL /B	120/277V, 60 Hz	700 Lumens	90 Minutes	NiCd
	KT-EMRG-1400-SL /B	120/277V, 60 Hz	1,400 Lumens	90 Minutes	NiCd
T5 Linear					
1-4	KT-EMRG-500-T5 /B	120/277V, 60 Hz	500 Lumens	90 Minutes	NiCd
	KT-EMRG-800-T5 /B	120/277V, 60 Hz	800 Lumens	90 Minutes	NiCd
	KT-EMRG-1300-T5*	120/277V, 60 Hz	1,300 Lumens	90 Minutes	NiCd



COMPACT FLUORESCENT EMERGENCY BALLASTS

No. of Lamps in Fixture	Catalog Number	Lamp Type	Input Voltage	Light Output	Illumination Time	Battery
1-4	KT-EMRG-650-CFL2	2-Pin CFL	120/277V, 60Hz	650 Lumens	90 Minutes	NiCd
	KT-EMRG-750-CFL4 /B	4-Pin CFL	120/277V, 60Hz	750 Lumens	90 Minutes	NiCd



CEC COMPLIANT EMERGENCY BALLASTS

No. of Lamps in Fixture	Catalog Number	Input Voltage	Light Output	Illumination Time	Battery
T8 & T12 Linear					
1-4	KT-EMRG-700C	120/277V, 50/60Hz	700 Lumens	90 Minutes	NiCd
	KT-EMRG-1400C	120/277V, 50/60Hz	1,400 Lumens	90 Minutes	NiCd
T5 Linear					
1-4	KT-EMRG-800C-T5	120/277V, 50/60Hz	800 Lumens	90 Minutes	NiCd
Compact Fluorescent					
1-4	KT-EMRG-1400C-CFL4	120/277V, 50/60Hz	1,400 Lumens	90 Minutes	NiCd

Typical Installations

AC LED EMERGENCY BACK-UP FOR TYPE B LED TUBES

Optimized for Keystone single-ended DirectDrive LED tubes and 10.5W and 18.5W G2 DirectDrive DX2 tubes



SmartSafe AC (shown on page 2)



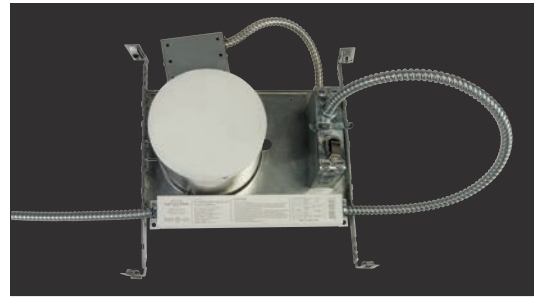
Shown installed in a wrap fixture

AC LED EMERGENCY BACK-UP FOR RECESSED AND INTEGRATED FIXTURES

Optimized for recessed LED downlight fixtures and retrofit kits, and Keystone DirectDrive compact lamps



Dual Flex SmartSafe AC (shown on page 2)



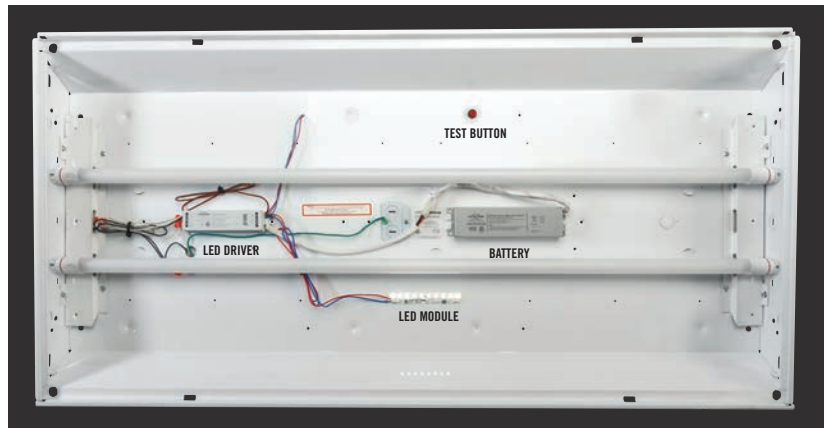
Shown installed in a recessed fixture

STANDARD LED EMERGENCY BACK-UP KIT

Enables emergency lighting solutions to be utilized in a variety of lighting fixtures including both LED and fluorescent



Standard Kit (shown on page 4; CA Compliant on page 5)



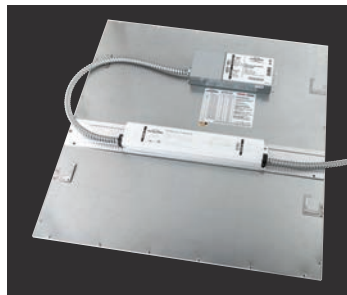
Shown installed in a troffer fixture with the LED module providing emergency lighting by bypassing the tubes

1-PIECE ENCLOSED LED EMERGENCY BACK-UP

Field installable solution for use in many fixture types; can also be remote mounted



1-Piece Enclosed
(shown on page 3; CA Compliant on page 5)



Shown installed in a flat panel fixture with mounting bracket



Shown installed in a high bay fixture with mounting bracket

