

DWG. NO.  
9K-0923

PART NO.  
9K-0923

APPROVED BULBS

PART #	DESCRIPTION	BM30G (1A)	BM30M (0.750A)	BM30 (1.2A)	BM30A (1A)	BM30L (1.03A)	6413 (0.67 - 1.1A)	6412 (0.500A)	MAX PTO CURRENT <sup>5</sup>	APPROVALS
5100-G	WHEAT LEAD ACID W/MARK II	X	X <sup>3</sup>	X	X	X				6D-30-31 THRU 50, 6D-50-0
5100-AR1	WHEAT LEAD ACID W/MARK II AND ACCESSORY TOP	X	X <sup>3</sup>		X	X			300mA	
5200-G	WHEAT LEAD ACID W/MARK V	X	X <sup>3</sup>	X	X	X				6D-36-0 THRU 17, 6D-50-0
5200-AR1	WHEAT LEAD ACID W/MARK V AND ACCESSORY TOP	X	X <sup>3</sup>		X	X			300mA	
6400-G1D	WHEAT LEAD ACID W/SERIES E						X	X	1.3A MINUS BULB CURRENT	6D-48-0, 6D-50-0
LI-5100-G	LI BATTERY W/MARK II	X	X	X <sup>2</sup>	X	X <sup>2</sup>				19-A040001-0
LI-5100-AR1	LI BATTERY W/MARK II AND ACCESSORY TOP	X	X	X <sup>2</sup>	X	X <sup>2</sup>			300mA	
LI-5200-G	LI BATTERY W/MARK V	X	X	X <sup>2</sup>	X	X <sup>2</sup>				
LI-5200-AR1	LI BATTERY W/MARK V AND ACCESSORY TOP	X	X	X <sup>2</sup>	X	X <sup>2</sup>			300mA	

APPROVED TRACKING TAGS

TRACKING TAG DESCRIPTION	MAX CURRENT	MIN RUN <sup>6</sup> TIME	APPROVAL NO.	BATTERY TYPE
MINE SITE TECHNOLOGIES TAG5	35 mA	26 hrs	19-A040001-0	16 Ah 14.4 Ah
MINE RADIO SYSTEMS MULTITAG TP1	19 mA	26 hrs	19-A040001-0	16 Ah 14.4 Ah
MINE SITE TECHNOLOGIES MODEL 3100 WI-FI TAG	15 mA	26 hrs	19-A040001-0	14.4 Ah

OBSOLETE  
BULBS

BM30
BM30A
BM30L

NOTES:

- DO NOT CHANGE WITHOUT MSHA APPROVAL
- BM30 & BM30L BULBS ARE ONLY APPROVED WITH THE 16Ah VERSION OF THE LI BATTERY
- BM30M BULB ONLY APPROVED WITH 6D-50-0 CAPLAMP SYSTEM
- APPROVED BULBS CHART SUPERSEDES ALL PRIOR MARKINGS REFERING TO APPROVED BULBS
- THE ACCESSORY RECEPTACLE MAY ONLY BE CONNECTED TO EQUIPMENT THAT HAS BEEN EVALUATED BY MSHA FOR USE WITH THE WHEAT MODEL ELECTRIC CAPLAMP SYSTEMS
- MINIMUM RUN TIMES ARE BASED ON TESTING PERFORMED BY MSHA ON THE TAG5 TRACKING TAG OPERATING AS A 35mA CONTINUOUS DUTY CYCLE LOAD.

REV	DESCRIPTION	DATE	APP'D	ECN NO.
B	REVISED BULB LIST AND ADDED NOTE 2, 3, 4; REMOVED ALL REFERENCES TO LI-16 BATTERY ADDED TRACKING TAG INFORMATION	4/30/08	JJK	08-11
A	NEW RELEASE	3/16/07		

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ANGLES: ±1°

DECIMAL DIMENSIONS: X.X ±.05  
X.XX ±.01  
X.XXX ±.005

FRACTIONAL DIMENSIONS: ±1/32  
UNLESS OTHERWISE SPECIFIED

DESIGN REPRESENTATIVE: \_\_\_\_\_ DATE: \_\_\_\_\_  
OFFICER: \_\_\_\_\_ DATE: \_\_\_\_\_

SHEET NO. 1 OF 1



KOEHLER-BRIGHT STAR INC.  
380 STEWART ROAD  
HANOVER TOWNSHIP  
PA. 18706

TITLE ACCEPTABLE BULBS FOR CAP LAMPS

DRAWN BY RJV DATE 03/16/07  
DWG. TYPE ACAD14 APP'D BY \_\_\_\_\_ DATE \_\_\_\_\_

SCALE N/A PART NO. 9K-0923

DWG. NO. 9K-0923 REV. B