

Ordering Guide and System Wattage

10 Pack Code	Pallet Code	Description	Input Voltage	Starting Method	Switch Method	Ballast Factor	# Lamps
71497	71502	GE632MAX90-S60	120-277	Instant Start	Bi-Level 100% to 60%	1.18 - .71	6 or 5
71731	71732	GE632MAX90-V60	120-277	Instant Start	Variable 0-10V 100 to 60%	1.18 - .71	6 or 5
73229		GE432MAX90-S60	120-277	Instant Start	Bi-Level 100% to 60%	1.18 - .71	4
73230		GE432MAX90-V60	120-277	Instant Start	Variable 0-10V 100 to 60%	1.18 - .71	4
73231		GE332MAX90-S60	120-277	Instant Start	Bi-Level 100% to 60%	1.18 - .71	3
73232		GE332MAX90-V60	120-277	Instant Start	Variable 0-10V 100 to 60%	1.18 - .71	3
73233		GE232MAX90-S60	120-277	Instant Start	Bi-Level 100% to 60%	1.18 - .71	2 or 1
73234		GE232MAX90-V60	120-277	Instant Start	Variable 0-10V 100 to 60%	1.18 - .71	2 or 1

	# of Lamps	# of Lamps				BF		# of Lamps	# of Lamps				BF	
		2H	3H	4H	6H				2H	3H	4H	6H		
F32T8HL 3100							F28T8 2750							
100%		74	110	146	215		100%		63	93	125	188		
	System Watts	7316	10974	14632	21948			System Watts	6490	9735	12980	19470		
	System Lumens	99	100	100	102	1.18		System Lumens	103	105	104	104	1.18	
	Lumens per Watt	0.7	1.1	1.5	2.2			Lumens per Watt	0.6	0.9	1.3	1.9		
	Watts per sq. ft.	53	79	105	158			Watts per sq. ft.	47	70	93	140		
	Est Avg Foot Candles	59	88	117	172			Est Avg Foot Candles	50	74	100	150		
80%		5828	8742	11656	17484		80%		5170	7755	10340	15510		
	System Watts	98	99	100	102	0.94		System Watts	103	104	103	103	0.94	
	System Lumens	0.6	0.9	1.2	1.7			System Lumens	0.5	0.7	1.0	1.5		
	Lumens per Watt	42	63	84	126			Lumens per Watt	37	56	74	112		
	Watts per sq. ft.	43	66	88	129			Watts per sq. ft.	43	65	78	113		
	Est Avg Foot Candles	4402	6603	8804	13206			Est Avg Foot Candles	4290	6353	8140	11715		
60%		102	100	101	102	0.71	60%		100	98	104	104	0.71	
	System Watts	0.4	0.7	0.9	1.3			System Watts	0.4	0.7	0.8	1.1		
	System Lumens	32	48	63	95			System Lumens	28	42	56	84		
	Lumens per Watt							Lumens per Watt						
	Watts per sq. ft.							Watts per sq. ft.						
	Est Avg Foot Candles							Est Avg Foot Candles						

	# of Lamps	# of Lamps				BF		# of Lamps	# of Lamps				BF	
		2H	3H	4H	6H				2H	3H	4H	6H		
F32/WM 2850							F32T8/25' 2400							
100%		68	101	133	202		100%		57	89	114	174		
	System Watts	6726	10089	13452	20178			System Watts	5664	8496	11328	16992		
	System Lumens	99	100	101	100	1.18		System Lumens	99	95	99	98	1.18	
	Lumens per Watt	0.7	1.0	1.3	2.0			Lumens per Watt	0.6	0.9	1.1	1.7		
	Watts per sq. ft.	48	73	97	145			Watts per sq. ft.	41	61	82	122		
	Est Avg Foot Candles	54	81	106	162			Est Avg Foot Candles	46	71	91	139		
80%		5358	8037	10716	16074		80%		4512	6768	9024	13536		
	System Watts	98	99	101	99	0.94		System Watts	99	95	99	97	0.94	
	System Lumens	0.5	0.8	1.1	1.6			System Lumens	0.5	0.7	0.9	1.4		
	Lumens per Watt	39	58	77	116			Lumens per Watt	32	49	65	97		
	Watts per sq. ft.	43	62	83	121			Watts per sq. ft.	43	66	75	104		
	Est Avg Foot Candles	4047	6071	8094	12141			Est Avg Foot Candles	43	66	75	104		
60%		94	98	98	100	0.71	60%		3744	5760	7200	10224		
	System Watts	0.4	0.6	0.8	1.2			System Watts	87	87	96	98	0.71	
	System Lumens	29	44	58	87			System Lumens	0.4	0.7	0.8	1.0		
	Lumens per Watt							Lumens per Watt	25	37	49	74		
	Watts per sq. ft.							Watts per sq. ft.						
	Est Avg Foot Candles							Est Avg Foot Candles						

Assumptions:

# of fixtures	100
Area to be lit (sq ft)	10000
Coefficient of Utilization	72%
Est. Fixture Spacing (ft)	10.0
Deep-cell Parabolic Louver	

Physical Parameters

	(2, 3, 4 Lamp Ballasts)	(6 lamp ballast)
Mount Length:	9.50 in.	11.14 in.
Width:	1.70 in.	1.70 in.
Height:	1.20 in.	1.20 in.
Weight:	1.4 lbs.	1.8 lbs.

The above data are estimates based upon the time of this literature. Data may vary as the products are introduced. The above values are based upon the assumptions listed.

The analysis does not in any way constitute or imply either a warranty of lamp or ballast performance or a guarantee of the actual costs or savings that will be realized or the appropriateness of the solutions suggested.

Transforming the **POWER** of Light™

GE National Customer Service Center
1-888-GEBALLAST (432-2552)

For product specifications and application information, please consult GE's Website:
www.gelighting.com

Information provided is subject to change without notice. Please verify all details with GE. All values are design or typical values when measured under laboratory conditions, and GE makes no warranty or guarantee, express or implied, that such performance will be obtained under end-use conditions.

GE Consumer & Industrial
Lighting

ecomagination™

UltraMax® Dimming

Bi-Level Dimming & Load Shed 0-10V Dimming
Instant Start Ballasts



Breakthrough Technology That Offers
the Highest Efficiency Ballast While
Providing Dimming Capability for an
Additional 40% Energy Savings



imagination at work

Transforming the **POWER** of Light™



GE revolutionizes lighting again with the new UltraMax® Dimming

In the GE labs, our engineers have developed ballasts that are the highest efficiency, lowest watts and allow various light levels without sacrificing efficiency during dimming.



The innovative, patented technology in our Platinum UltraMax® electronic ballasts allow more flexibility in lighting design than ever before at an affordable price well below conventional dimming ballasts.

Multi-Voltage technology means a single UltraMax® model handles voltage from 120 through 277

UltraMax® Ballasts can virtually "read" the incoming voltage and adapt automatically to any voltage from 108V to 305V. The benefits of Multi-Voltage Control (MVC) are obvious.



"Tunable" ballast factor (light level)

The most versatile line of ballasts available. With just four ballasts you can design your lighting system to operate one through six of the F32T8 family of lamps including the GE Ultra energy saving lamps, select a light level between ~3400 to 22,000 lumens with a system wattage ranging between 34 to 215 watts without sacrificing system efficiency. Design your lighting system to "tune" the light level to the ambient light or scenes desired while saving up to 40% by dimming!

GE's UltraMax® line is the only full line of T8 ballasts with a UL Type CC Anti-Arc Rating

UL Type CC Rating is a stringent designation for protection against arcing in electrical devices. GE's Arc-Guard design eliminates the damaging effects arcing can have on lamps, ballasts and sockets.

High efficiency delivers over 40% energy savings.



All UltraMax® ballasts exceed the NEMA Premium® minimum efficiency requirements. The Platinum UltraMax® 6H ballast establishes a new energy efficiency threshold at 95% ballast efficiency! Systems combining UltraMax® electronic ballasts and T8 energy saving lamps deliver over 40% energy savings over standard T12 systems. Where and when light can be lowered reduce your energy costs by an additional 40% for a possible 80% total reduction over standard T12 systems.

-20F Minimum Starting Temperature.

Cold temperature starting performance with standard T8 lamps.



UL 55C Ambient Rating.

GE's UltraMax®'s patented high temperature protection circuit ensures ballasts run cool in high temperatures. UltraMax® is one of the only electronic T8 ballasts that pass UL's stringent high temperature testing requirements for safe operation up to 55C ambient environments.

Anti-Striation Control for better light quality, with no striations.

UltraMax®'s patented Anti-Striation Control circuit eliminates lamp striations, often referred to as spiraling or racoon tailing. This provides a flicker- and worry-free environment.

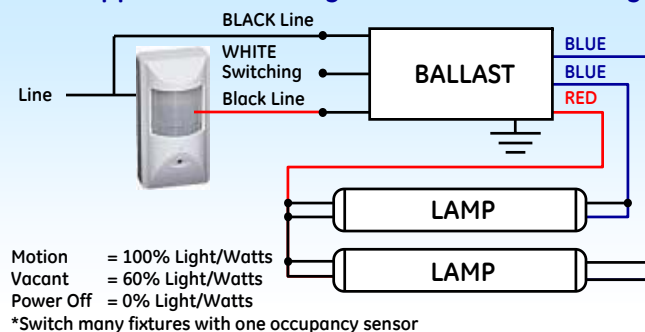
A big idea in a small package.

The Platinum UltraMax® 2H, 3H and 4H ballast has a small, low profile 9.5 x 1.7 x 1.2" housing. The 6H makes T8 highbay assembly faster and easier with just one ballast in an amazing 11.14 x 1.7 x 1.2" housing. That means fixture designs can be more compact and streamlined.

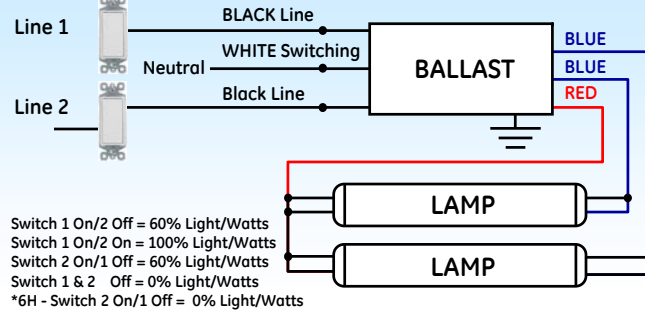


Line Voltage Dimming

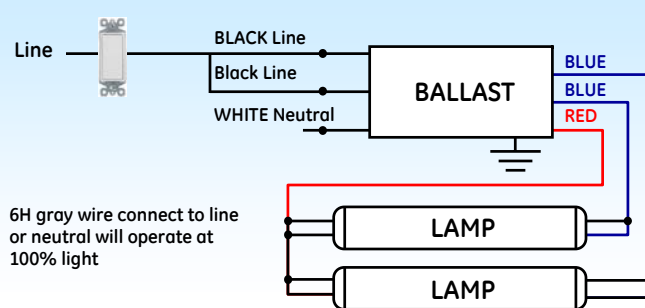
S60 Application #1 – High Low Sensor Switching



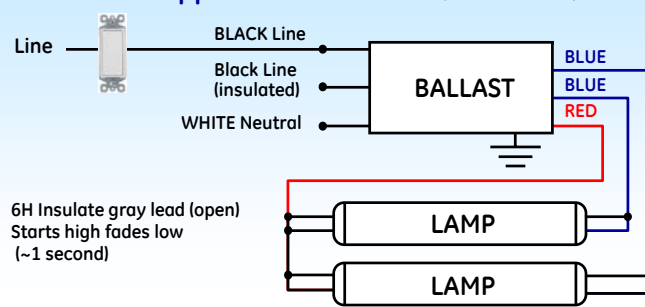
S60 Application #2 – Two Switch



S60 Application #3 – H 1.18 (High Light)

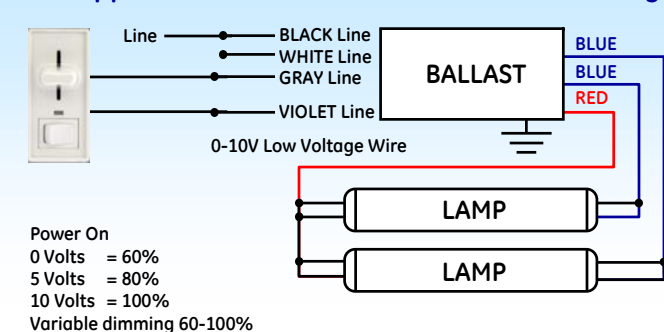


S60 Application #4 – L .71 (Low Watt)

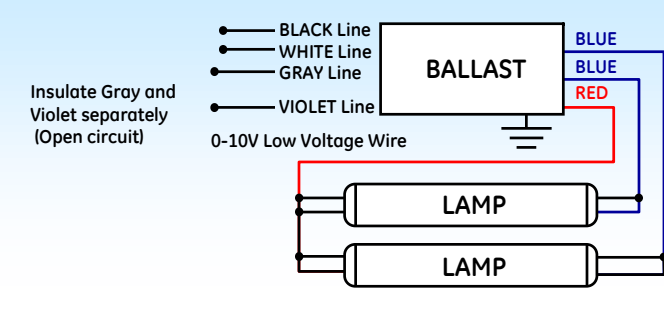


0-10V Low Voltage Dimming

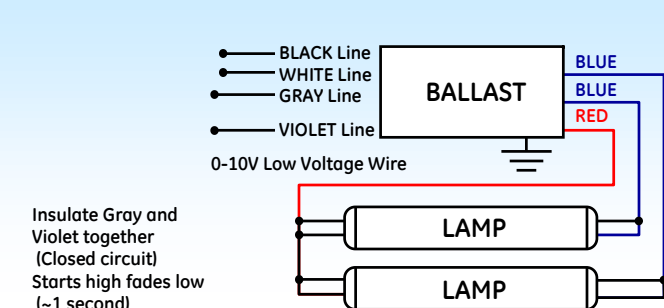
V60 Application #1 – Variable Load Shed Dimming



V60 Application #2 – H 1.18 (High Light)



V60 Application #3 – H .71 (Low Watt)



Safety & Performance	Application Information
<ul style="list-style-type: none"> No PCBs RoHS Compliant FCC Class A UL Listed 	<ul style="list-style-type: none"> Minimum Starting Temp: -20°F, -18°C Anti-Striation Control Sound Rated A Remote Mounting: -18' maximum length, -18 AWG High Frequency Lamp Operation: ~ 68 kHz
<ul style="list-style-type: none"> -UL 55C Ambient Rating -Type 1 Outdoor -Type CC -Type HL (Hazardous Location) 	

UltraMax® Dimming are instant start ballasts and are limited to approximately 5 on/off cycles per day to avoid significantly shortening lamp life. It is not recommended to use sensors to control ballast on/off cycles and doing so may void lamp warranty. However sensors may be used on the high low switching wire and gray/violet input of the ballast with the sensor setting recommended no less than 5 minutes per cycle without sacrificing lamp life.