

# LED 4' PLUG & GO™ - TYPE A - DIRECT REPLACEMENT

BALLAST COMPATIBILITY

BRAND	MODEL	Start Method	# of Lamps	Ballast Factor		Lamp Connection	1 Lamp Load		2+ Lamp Load	
				Type	Value		120V	277V	120V	277V
ACT	ACT 2P32ISUNVE	IS	2	N	0.89	Parallel	✓	✓	✓	✓
	GOPA-2P32-N	IS	2	N	/	Parallel	✓	✓	✓	✓
ADVANCE	ICN-132-MC	IS	1	N	0.88	-	-	-	✓	✓
	ICN-1P32-N	IS	1	N	0.91	-	-	-	X	X
	ICN-2P16-TLED-N	IS	2	N	/	Parallel	✓	✓	✓	✓
	ICN-2P32-N	IS	2	N	0.89	Parallel	✓	✓	✓	✓
	ICN-3P32-SC	IS	3	N	0.89	Parallel	✓	✓	✓	✓
	ICN-3P32-N	IS	3	N	0.88	Parallel	N	N	N	N
	ICN-4P16-TLED-N	IS	4	N	/	Parallel	✓	✓	✓	✓
	ICN-4P32-N	IS	4	N	0.90	Parallel	✓	✓	✓	✓
	IOP-1P32-N	IS	1	N	0.89	-	X	X	X	X
	IOP-2P32-N	IS	2	N	0.89	Parallel	✓	✓	✓	✓
	IOP-2P32-LW-N	IS	2	L	0.77	Parallel	✓	✓	✓	✓
	IOP-2P32HL-SC	IS	2	H	1.18	Parallel	X	X	X	X
	IOP-3P32-N	IS	3	N	0.87	Parallel	N	N	N	N
	IOP-3PSP32-SC	PS	3	N	0.88	Parallel	✓	✓	✓	✓
	IOP-3P32HL-90C-SC	IS	3	H	1.22	Parallel	X	X	X	X
	IOP-4PSP32-LW-SC	PS	4	L	0.69	Parallel	✓	✓	✓	✓
	IOP-4PSP32-SC	PS	4	N	0.89	Parallel	✓	✓	✓	✓
	IOP-4P32-HL-SC	IS	4	H	1.18	Parallel	X	X	X	X
	IOP-4P32-LW-N	IS	4	L	0.77	Parallel	✓	✓	✓	✓
	IOP-4P32-N	IS	4	N	0.87	Parallel	✓	✓	✓	✓
	IOP-4P32-SC	IS	4	N	0.87	Parallel	S	S	S	S
	IOPA-1P32-N	IS	1	N	0.88	-	X	X	X	X
	IOPA-2P32-HL-N	IS	2	H	1.18	Parallel	N	N	N	N
	IOPA-3P32-LW-N	IS	3	L	0.76	Parallel	N	N	N	N
	IOPA-3P32-N	IS	3	N	0.86	Parallel	N	N	N	N
	IOPA-4P32-HL	IS	4	H	1.18	Parallel	✓	✓	✓	✓
	IOPA-4P32-SC	IS	4	N	0.92	Parallel	✓	✓	✓	✓
	REB-2P32-SC	IS	2	N	0.88	Parallel	F	-	✓	-
	REB-4P32-SC	IS	4	N	0.81	Parallel	✓	-	✓	-
	REL-2P32-RH-TP	IS	2	H	/	Parallel	✓	✓	✓	✓
VEL-2P32-SC	IS	2	N	0.88	Parallel	-	T	-	✓	
VEL-3P32-SC	IS	3	N	0.88	Parallel	✓	✓	✓	✓	
VEL-2P32-RH-TP	IS	2	N	/	Parallel	-	P, T	-	✓	
ANTRON	A32T8MICLO	IS	2	L	0.78	Parallel	✓	✓	✓	✓
ARCATA	ACT 3P32ISUNVLE	IS	3	L	0.78	Parallel	✓	✓	✓	✓
COOPER	CL-432ISUNV-RI-B	IS	4	H	1.18	Parallel	✓	✓	✓	✓
DAMAR	EL232-120/277HF(1688B)	IS	2	N	/	Parallel	✓	F	✓	✓
	EL232HL-120/277HF(1688D)	IS	2	H	/	Parallel	✓	✓	✓	✓
	EL332-120/277HF(3654C)	IS	3	N	/	Parallel	✓	✓	✓	✓
	EL332HL-120/277HF(3654H)	IS	3	H	/	Parallel	✓	✓	✓	✓
	EL432-120/277HF(3093B)	IS	4	N	/	Parallel	✓	✓	✓	✓
	EL432HL-120/277HF(3093C)	IS	4	H	/	Parallel	✓	✓	✓	✓
EIKO	PM-2X32T8-UNV-IS	IS	2	N	0.87	Parallel	✓	✓	✓	✓
	PM-2x32T8-UNV-IS-H	IS	2	H	1.18	Parallel	HT	HT	✓	✓
	PM-2X32T8-UNV-IS-L	IS	2	L	0.77	Parallel	✓	✓	✓	✓
	PM-3X32T8-UNV-IS	IS	3	N	0.87	Parallel	✓	✓	✓	✓
	PM-3X32T8-UNV-IS-H	IS	3	H	1.18	Parallel	HT	HT	✓	✓
	PM-3X32T8-UNV-IS-L	IS	3	L	0.78	Parallel	✓	✓	✓	✓
	PM-4X32T8-UNV-IS	IS	4	N	0.88	Parallel	✓	✓	✓	✓
	PM-4X32T8-UNV-IS-L	IS	4	L	0.78	Parallel	✓	✓	✓	✓
ESPEN	VE232MVHIPE	IS	2	N	0.89	Parallel	✓	✓	✓	✓
	VE232MVHIPHE	IS	2	H	1.19	Parallel	HT	HT	✓	✓
	VE232MVHIPL	IS	2	L	0.77	Parallel	✓	✓	✓	✓
	VE2P32MVHIPE	IS	2	N	0.89	Parallel	✓	✓	✓	✓

**KEY**

✓	Compatible	X	Not Recommended	-	Not applicable	T	THD > 30%	/	Not Tested
S	Can't-start up	F	Flicker after>2s start-up	P	PF < 0.85	N	Acoustic noise > 20dB		

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BRAND	MODEL	Start Method	# of Lamps	Ballast Factor		Lamp Connection	1 Lamp Load		2+ Lamp Load		
				Type	Value		120V	277V	120V	277V	
GE	332MAX-H-42T	IS	3	H	/	Parallel	✓	✓	✓	✓	
	332MAX-H-84TS	IS	3	H	/	Parallel	✓	✓	✓	✓	
	GE132MAX-G-N	IS	1	N	0.88	-	-	-	X	X	
	GE132MAX-L/ULTRA	IS	1	L	0.78	-	-	-	X	X	
	GE232MAX347-N	IS	2	H	1.02		Parallel	-	P, T(347V)	-	✓ (347V)
	GE232MAX-G-N	IS	2	N	0.88		Parallel	✓	✓	✓	✓
	GE-232-MAX-H-42T	IS	2	H	/		Parallel	HT	HT	HT	HT
	GE-232-MAX-H/Ultra	IS	2	H	1.15		Parallel	X	X	X	X
	GE232MAXP90-V60	IS	2	H	1.18		Parallel	X	X	X	X
	GE232MAX-L/ULTRA	IS	2	L	0.78		Parallel	✓	✓	✓	✓
	GE232MAX-N/ULTRA	IS	2	N	0.88		Parallel	✓	✓	✓	✓
	GE-232-MV-N	IS	2	N	0.88		Parallel	✓	✓	✓	✓
	GE232MV-N-DIY	IS	2	N	0.88		Parallel	✓	✓	✓	✓
	GE232-MVPS-N	PS	2	N	0.88		Parallel	✓	✓	✓	✓
	GE-232-MV-PS-N	PS	2	N	0.88		Parallel	✓	✓	✓	✓
	GE332MAXP-L/ULTRA	IS	3	L	0.77		Parallel	✓	✓	✓	✓
	GE332MAXP90-V60	IS	3	H	1.18		Parallel	X	X	X	X
	GE332MAX-G-N	IS	3	N	0.87		Parallel	✓	✓	✓	✓
	GE332MAX-N/ULTRA	IS	3	N	0.88		Parallel	✓	✓	✓	✓
	GE332MAXP-H/ULTRA	IS	3	H	1.18		Parallel	HT	HT	✓	✓
	GE332MAX-L/ULTRA	IS	3	L	0.78		Parallel	✓	✓	✓	✓
	GE332MV-N	IS	3	N	0.87		Parallel	✓	✓	✓	✓
	GE-332-MVPS-N	PS	3	N	0.88		Parallel	✓	✓	✓	✓
	GE432-120-RES	IS	4	N	0.83		Parallel	✓	-	✓	-
	GE432MAX347-N	IS	4	N	0.94		Parallel	-	✓ (347V)	-	✓ (347V)
	GE432MAX90-S60	IS	4	H	1.18		Parallel	✓	✓	✓	✓
	GE432MAXP90-S60	IS	4	H	1.18		Parallel	X	X	X	X
	GE432MAX-H-42T	IS	4	H	/		Parallel	✓	T	✓	T
	GE432MAX-H/ULTRA	IS	4	H	1.18		Parallel	✓	✓	✓	✓
	GE432MAX-N/ULTRA	IS	4	N	0.88		Parallel	✓	✓	✓	✓
	GE432MAX-G-H	IS	4	H	1.18		Parallel	✓	✓	✓	✓
	GE432MV-N-42T	IS	4	N	0.93		Parallel	✓	✓	✓	✓
GE432MAX-H/ULTRA	IS	4	H	1.18		Parallel	✓	✓	✓	✓	
HALCO	EP232IS/H/MV/HE	IS	2	H	1.18	Parallel	✓	✓	✓	✓	
	EP232IS/L/MV/HE	IS	2	L	0.78	Parallel	✓	✓	✓	✓	
	EP232IS/MV/HE	IS	2	N	0.88	Parallel	✓	✓	✓	✓	
	EP332IS/L/MV/HE	IS	3	L	0.78	Parallel	✓	✓	✓	✓	
	EP332IS/MV/HE	IS	3	N	0.87	Parallel	✓	✓	✓	✓	
	EP432IS/120/MC	IS	4	n	0.88	Parallel	S	S	S	S	
	EP432IS/MV/HE	IS	4	N	0.88	Parallel	✓	✓	✓	✓	
	EP432IS/L/MV/HE	IS	4	L	0.78	Parallel	✓	✓	✓	✓	
HATCH	HL232BIS/UV/HE/W	IS	2	N	0.9	Parallel	✓	✓	✓	✓	
	HL432BIS/UV/HE/W	IS	4	N	0.9	Parallel	✓	✓	✓	✓	
HOWARD	E2/32IS-120MC	IS	2	N	0.85	Parallel	T	-	✓	-	
	EP2/32IS/MV/MC/HE	IS	2	N	0.89	Parallel	✓	✓	✓	✓	
	EP3/32IS/MV/MC/HE	IS	3	N	0.88	Parallel	✓	✓	✓	✓	
	EP3/32IS/MV/SC/HE	IS	3	N	0.87	Parallel	✓	✓	✓	✓	
	EP4/32IS/MV/MC/HE	IS	4	N	0.88	Parallel	✓	✓	✓	✓	
	EPH2/32IS/MV/MC/HE	IS	2	H	1.18	Parallel	HT	HT	✓	✓	
	EPH4/32IS/MV/SC/HE	IS	4	H	1.16	Parallel	X	X	X	X	
	EPH3/32IS/MV/MC/HE	IS	3	N	0.91	Parallel	HT	HT	✓	✓	
	EPL2/32IS/MV/MC/HE	IS	2	L	0.78	Parallel	✓	T	✓	✓	
	EPL3/32IS/MV/SC/HE	IS	3	L	0.78	Parallel	✓	✓	✓	✓	
EPL4/32IS/MV/MC/HE	IS	4	L	0.77	Parallel	✓	✓	✓	✓		

KEY									
✓	Compatible	X	Not Recommended	-	Not applicable	T	THD > 30%	/ Not Tested	
S	Can't-start up	F	Flicker after>2s start-up	P	PF < 0.85	N	Acoustic noise > 20dB		

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BALLAST COMPATIBILITY

BRAND	MODEL	Start Method	# of Lamps	Ballast Factor		Lamp Connection	1 Lamp Load		2+ Lamp Load	
				Type	Value		120V	277V	120V	277V
KEYSTONE	KTEB-232LBF-1-TP-PIC-EV	IS	2	N	0.88	Parallel	✓	-	✓	-
	KTEB-432RIS-1-TP-SL	IS	4	N	0.80	Parallel	✓	-	✓	-
	KTEB-232-UV-IS-H-P	IS	2	H	1.18	Parallel	HT	HT	✓	✓
	KTEB-332-UV-IS-H-P	IS	3	H	1.18	Parallel	HT	HT	✓	✓
	KTEB-332-UV-IS-N-P	IS	3	N	0.87	Parallel	✓	✓	✓	✓
	KTEB-432-UV-IS-H-P	IS	4	H	1.18	Parallel	✓	✓	✓	✓
LIMITED	KTEB-432-UV-IS-N-P	IS	4	N	0.87	Parallel	✓	✓	✓	✓
	EB-332EBF-UV-TP-HE	IS	3	L	0.78	Parallel	✓	✓	✓	✓
MAXLITE	MLEU322HEL/SC	IS	2	N	0.83	Parallel	✓	✓	✓	✓
	MLEU323H/SC	IS	3	H	1.18	Parallel	✓	✓	✓	✓
	MLEU324HE/SC	IS	4	N	0.88	Parallel	✓	✓	✓	✓
	SKEU322HEL/SC	IS	2	L	0.77	Parallel	✓	✓	✓	✓
	SKEU323L/SC	IS	3	L	0.78	Parallel	✓	✓	✓	✓
	SKEU324HE/SC	IS	4	N	0.88	Parallel	✓	✓	✓	✓
OSRAM	QHE 1X32T8/UNV ISH-SC	IS	1	H	1.20	-	-	-	✓	P, T
	QHE 1X32T8/UNV ISL-SC	IS	1	L	0.78	-	-	-	✓	✓
	QHE 2X32T8/UNV ISH HT-SC	IS	2	H	/	Parallel	HT	HT	✓	✓
	QHE 2X32T8/UNV ISL-SC	IS	2	L	0.78	Parallel	✓	✓	✓	✓
	QHE 2X32T8/UNV ISN-SC	IS	2	N	0.88	Parallel	✓	✓	✓	✓
	QHE 2X32T8/UNV PSN-MC	PRS	2	N	0.88	Parallel	✓	✓	✓	✓
	QHE 3x32T8/UNV ISH HT-SC	IS	3	H	1.18	Parallel	HT	HT	✓	✓
	QHE 3X32T8/UNV ISL-SC	IS	3	L	0.78	Parallel	✓	✓	✓	✓
	QHE 3X32T8/UNV ISN-SC	IS	4	N	0.88	Parallel	✓	✓	✓	✓
	QHE 3X32T8/UNV PSN-SC	PRS	3	N	0.88	Parallel	✓	✓	✓	✓
	QHE 4x32T8/UNV ISH-SC	IS	4	H	/	Parallel	X	X	X	X
	QHE 4x32T8/UNV ISH HT-1	IS	4	H	1.18	Parallel	✓	✓	✓	✓
	QHE 4X32T8/UNV ISL-SC	IS	4	L	0.78	Parallel	✓	✓	✓	✓
	QHE 4X32T8/UNV PSN-SC	PRS	4	N	0.88	Parallel	✓	✓	✓	✓
	QT2X32/120 IS-SC	IS	2	N	0.9	Parallel	P, T	-	✓	-
	QT 2x32/347 ISH-SC	IS	2	H	1.20	Parallel	-	-	-	✓ (347V)
	QTP 2X32T8/UNV ISN-SC	IS	2	N	0.88	Parallel	✓	✓	✓	✓
	QTP2x32T8/277 ISN-D	IS	2	L	0.78	Parallel	-	✓	-	✓
	QTP 3X32T8/UNV ISN-SC	IS	3	N	0.88	Parallel	✓	✓	✓	✓
	PACIFIC	EB-232IS-120-RES	IS	2	N	/	Parallel	✓	-	✓
PLUSRITE	BAF232IS/MV	IS	2	N	0.89	Parallel	✓	✓	✓	✓
	BAF232IS/MV/L	IS	2	L	0.78	Parallel	✓	✓	✓	✓
	BAF332IS/MV	IS	3	N	0.88	-	✓	✓	✓	✓
	BAF332IS/MV/L	IS	3	L	0.78	Parallel	✓	✓	✓	✓
	BAF432IS/MV	IS	4	N	0.88	Parallel	✓	✓	✓	✓
	BAF432IS/MV/L	IS	4	L	0.78	Parallel	✓	✓	✓	✓
PROLUME	EP232IS/L/MV/SL	IS	2	L	0.78	Parallel	✓	✓	✓	✓
	E432IS/120/R/SL	IS	4	N	0.87	Parallel	P, T	-	P, T	-
SOLA	E-758-U-232-MC	IS	2	N	0.88	Parallel	✓	✓	X	X
SUNPARK	120-1/32IS HPF	IS	1	N	0.88	-	-	-	✓	-
	120-3/32IS MPF	IS	3	N	0.88	Parallel	✓	-	✓	-
	SL15T	PS	2	N	0.88	Series	S	-	S	-
	U-2/32IS HBF	IS	2	H	1.18	Parallel	✓	✓	✓	✓
	U-2/32ISE-LBF	IS	2	L	0.78	Parallel	✓	✓	✓	✓
	U-3/32ISE	IS	3	N	0.88	Parallel	✓	✓	✓	✓
	U-3/32ISE-HBF	IS	3	H	1.18	Parallel	HT	HT	✓	✓
	U-4/32IS HBF	IS	4	H	1.18	Parallel	HT	HT	✓	✓
	U-4/32IS HP,F	IS	4	N	0.88	Parallel	✓	✓	✓	✓
U-4/32ISE-LBF	IS	4	L	0.77	Parallel	✓	✓	✓	✓	
SUPERIOR LIFE	70201	IS	2	N	0.88	Parallel	✓	F	✓	✓
SYLVANIA	QT 3x32/277 IS	IS	3		Parallel	Parallel	-	✓	-	✓

**KEY**

✓	Compatible	X	Not Recommended	-	Not applicable	T	THD > 30%	/	Not Tested
S	Can't-start up	F	Flicker after>2s start-up	P	PF < 0.85	N	Acoustic noise > 20dB		

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BRAND	MODEL	Start Method	# of Lamps	Ballast Factor		Lamp Connection	1 Lamp Load		2+ Lamp Load	
				Type	Value		120V	277V	120V	277V
TCP	E2P32ISUNVHE	IS	2	H	1.18	Parallel	HT	HT	✓	✓
	E3P32ISUNVE	IS	3	N	0.88	Parallel	✓	✓	✓	✓
	E4P32ISUNVE	IS	4	N	0.88	Parallel	✓	✓	✓	✓
	E3P32ISUNVHE	IS	3	H	/	Parallel	✓	✓	✓	✓
	E3P32ISUNVLE	IS	3	L	0.78	Parallel	✓	F	✓	✓
	E4P32ISUNVHE	IS	4	N	1.18	Parallel	✓	✓	✓	✓
	E4P32ISUNVLE	IS	4	L	0.78	Parallel	✓	F	✓	✓
	TCP3P32ISUNVH	IS	3	H	1.18	Parallel	HT	HT	✓	✓
TOPAZ	B232IUNVHEH/A-TPZ	IS	2	H	1.18	Parallel	HT	HT	✓	✓
	B432IUNVHEH/A-TPZ	IS	4	H	1.18	Parallel	✓	✓	✓	✓
UNIVERSAL	B132IUNVHP-N	IS	1	N	0.88	-	-	-	F	✓
	B232I277RH-A	IS	4	H	1.09	Parallel	-	T	-	✓
	B232I120RES-A	IS	2	N	0.88	Parallel	T	-	T	-
	B232IUNV-C	IS	2	N	0.88	Parallel	✓	✓	✓	✓
	B232IUNVHEH-A	IS	2	H	1.18	Parallel	HT	HT	✓	✓
	B232IUNVHP-B	IS	2	N	0.88	Parallel	✓	✓	✓	✓
	B232IUNVHP-N	IS	2	N	0.88	Parallel	N	N	✓	✓
	B232IUNVEL-A	IS	2	L	0.77	Parallel	✓	✓	✓	✓
	B233IUNVHE-A	IS	2	N	0.87	Parallel	✓	✓	✓	✓
	B332IHRVHB-E	IS	3	H	/	Parallel	S	S	S	S
	B432IUNVHE-A	IS	4	N	0.87	Parallel	✓	✓	✓	✓
	B432IUNVHEH-E	IS	4	H	1.15	Parallel	✓	✓	✓	✓
	B332IUNVHP-A	IS	3	N	0.88	Parallel	✓	✓	✓	✓
	B432IUNVHP-A	IS	4	N	0.88	Parallel	✓	✓	✓	✓
	B432IUNVHE L-A	IS	4	L	0.77	Parallel	✓	✓	✓	✓
	B432PUNVHE-A	PS	4	N	0.87	Parallel	✓	✓	✓	✓
B432I120RH-A	IS	4	N	0.88	Parallel	-	-	✓	✓	
WATRAN	DB-232N-MV-TP-HE	IS	2	N	0.87	Parallel	✓	✓	✓	✓
	DB-232N-MV-TP-HE (SC)	IS	2	N	0.87	Parallel	✓	✓	✓	✓
	DB-332N-MV-TP-HE	IS	3	N	0.87	Parallel	✓	✓	✓	✓
	DBG32N-MV-TP-PS-HL	PS	3	H	/	-	S	S	S	S
	DB-432L-MV-TP-HE	IS	4	L	0.77	Parallel	✓	✓	✓	✓
	DB-432N-MV-TP-HE	IS	4	N	0.87	Parallel	✓	✓	✓	✓
WORK HORSE	WHS3G3-UNV-T8-IS	IS	3	N	0.99	Parallel	✓	✓	✓	✓
	WHS4G4-UNV-T8-IS	IS	4	N	0.96	Parallel	✓	✓	✓	✓

KEY									
✓	Compatible	X	Not Recommended	-	Not applicable	T	THD > 30%	/	Not Tested
S	Can't-start up	F	Flicker after>2s start-up	P	PF < 0.85	N	Acoustic noise > 20dB		