

LED LAMP WITH EXTERNAL DRIVER | Type C

TYPE - C



driver LED

Constant Current
Multi-Channel 0-10V & power line dimming
Available in Programmable & Field Adjustable

linear LED

G13 or G5, External Driver
Dimmable, Long Life, Convenient Wiring



LED programmer

Adjusts drivers' power, current, dimming levels and delay timer



emergency driver

Constant light output,
Auto LED load sensing

ESPEN CORETECH LED SYSTEM

LED lamps with external driver for full controllability ESPEN's CoreTech LED system consists of industry-leading LED lamps and programmable multi-channel drivers. The CoreTech system utilizes the exact same wiring diagram as fluorescent ballasts. The upgrade is handled the same as replacing an electronic ballast and lamps. Your facility can save up to 50% of system power while maintaining or increasing illumination levels.

The CoreTech multi-channel design permits all lamps to work independently to prevent total darkness when one lamp fails. The user-friendly programmability allows you to set the same system for normal output, high output, or low output, to match your application requirements.

LED T5 & T8 LAMP WITH EXTERNAL DRIVER | Type C



TYPE - C

FEATURES AND BENEFITS

- No Polarity, Lamp Ends Can Be Reversed
- Compatible with Controls and Sensors
- Glass Tube for Optimal Light Output and Heat Dissipation
- 50,000 Hours Life with No Limitation on On/Off Cycles
- -20° F to 130° F Ambient Operating Temperature
- 1 or 2 Lamps Compatible with Espen VPL50 LED Driver¹
- 3 or 4 Lamps Compatible with Espen VPL100 LED Driver¹
- 240° Wide Beam Angle for T5 Lamps
- 325° Wide Beam Angle for T8 Lamps
- Dimmable
- Class 2 System
- 5 Year Warranty



LED T5 HE & HO LAMP WITH EXTERNAL DRIVER | Type C

TYPE - C

For T5HE Replacement (250mA Driving Current)

Model No.	Length (in)	Driver Current	Replaces	Lamp Power (W)	System Power (W)	Lumens (lm)	Lamp Efficacy (lm/W)	Lamp Voltage (V)	CCT (K)	CRI	Life (h)	Current Settings
Linear T5												
L24T5/830/11G-XT	24	Normal	F14T5HE	8	11	1200	150	120-277	3000+	82+	50000	250 mA
L24T5/835/11G-XT	24	Normal	F14T5HE	8	11	1200	150	120-277	3500	82+	50000	250 mA
L24T5/840/11G-XT	24	Normal	F14T5HE	8	11	1200	150	120-277	4000	82+	50000	250 mA
L24T5/850/11G-XT	24	Normal	F14T5HE	8	11	1200	150	120-277	5000	82+	50000	250 mA
L36T5/830/18G-XT	36	Normal	F21T5HE	9	12	1400	155	120-277	3000+	82+	50000	250 mA
L36T5/835/18G-XT	36	Normal	F21T5HE	9	12	1400	155	120-277	3500	82+	50000	250 mA
L36T5/840/18G-XT	36	Normal	F21T5HE	9	12	1400	155	120-277	4000	82+	50000	250 mA
L36T5/850/18G-XT	36	Normal	F21T5HE	9	12	1400	155	120-277	5000	82+	50000	250 mA
L48T5/830/24G-XT	48	Normal	F28T5HE	11	14	1700	155	120-277	3000+	82+	50000	250 mA
L48T5/835/24G-XT	48	Normal	F28T5HE	11	14	1700	155	120-277	3500	82+	50000	250 mA
L48T5/840/24G-XT	48	Normal	F28T5HE	11	14	1700	155	120-277	4000	82+	50000	250 mA
L48T5/850/24G-XT	48	Normal	F28T5HE	11	14	1700	155	120-277	5000	82+	50000	250 mA

For T5HE Replacement (360mA Driving Current)

Model No.	Length (in)	Driver Current	Replaces	Lamp Power (W)	System Power (W)	Lumens (lm)	Lamp Efficacy (lm/W)	Lamp Voltage (V)	CCT (K)	CRI	Life (h)	Current Settings
Linear T5												
L24T5/830/11G-XT	24	Normal	F14T5HE	9	12	1300	144	120-277	3000+	82+	50000	360mA
L24T5/835/11G-XT	24	Normal	F14T5HE	9	12	1300	144	120-277	3500	82+	50000	360mA
L24T5/840/11G-XT	24	Normal	F14T5HE	9	12	1300	144	120-277	4000	82+	50000	360mA
L24T5/850/11G-XT	24	Normal	F14T5HE	9	12	1300	144	120-277	5000	82+	50000	360mA
L36T5/830/18G-XT	36	Normal	F21T5HE	13	16	1900	146	120-277	3000+	82+	50000	360mA
L36T5/835/18G-XT	36	Normal	F21T5HE	13	16	1900	146	120-277	3500	82+	50000	360mA
L36T5/840/18G-XT	36	Normal	F21T5HE	13	16	1900	146	120-277	4000	82+	50000	360mA
L36T5/850/18G-XT	36	Normal	F21T5HE	13	16	1900	146	120-277	5000	82+	50000	360mA
L48T5/830/24G-XT	48	Normal	F28T5HE	15	18	2200	146	120-277	3000+	82+	50000	360mA
L48T5/835/24G-XT	48	Normal	F28T5HE	15	18	2200	146	120-277	3500	82+	50000	360mA
L48T5/840/24G-XT	48	Normal	F28T5HE	15	18	2200	146	120-277	4000	82+	50000	360mA
L48T5/850/24G-XT	48	Normal	F28T5HE	15	18	2200	146	120-277	5000	82+	50000	360mA

For T5HO Replacement (500mA Driving Current)

Model No.	Length (in)	Driver Current	Replaces	Lamp Power (W)	System Power (W)	Lumens (lm)	Lamp Efficacy (lm/W)	Lamp Voltage (V)	CCT (K)	CRI	Life (h)	Current Settings
Linear T5												
L24T5/830/11G-XT	24	High	F24T5HO	12	15	1700	142	120-277	3000+	82+	50000	500mA
L24T5/835/11G-XT	24	High	F24T5HO	12	15	1700	142	120-277	3500	82+	50000	500mA
L24T5/840/11G-XT	24	High	F24T5HO	12	15	1700	142	120-277	4000	82+	50000	500mA
L24T5/850/11G-XT	24	High	F24T5HO	12	15	1700	142	120-277	5000	82+	50000	500mA
L36T5/830/18G-XT	36	High	F39T5HO	18	21	2500	139	120-277	3000+	82+	50000	500mA
L36T5/835/18G-XT	36	High	F39T5HO	18	21	2500	139	120-277	3500	82+	50000	500mA
L36T5/840/18G-XT	36	High	F39T5HO	18	21	2500	139	120-277	4000	82+	50000	500mA
L36T5/850/18G-XT	36	High	F39T5HO	18	21	2500	139	120-277	5000	82+	50000	500mA
L48T5/830/24G-XT	48	High	F54T5HO	24	27	3300	138	120-277	3000+	82+	50000	500mA
L48T5/835/24G-XT	48	High	F54T5HO	24	27	3300	138	120-277	3500	82+	50000	500mA
L48T5/840/24G-XT	48	High	F54T5HO	24	27	3300	138	120-277	4000	82+	50000	500mA
L48T5/850/24G-XT	48	High	F54T5HO	24	27	3300	138	120-277	5000	82+	50000	500mA

+ 3000K CCT may be subject to lead times and availability.

LED T5 HE & HO NANO PLASTIC LAMP WITH EXTERNAL DRIVER

For T5HE Replacement (250mA Driving Current)

NANO PLASTIC COMING SOON

Model No.	Length (in)	Driver Current	Replaces	Lamp Power (W)	System Power (W)	Lumens (lm)	Lamp Efficacy (lm/W)	Lamp Voltage (V)	CCT (K)	CRI	Life (h)	Current Settings
Linear T5												
L24T5/830/11P-XT	24	Normal	F14T5HE	8	11	1200	109	120-277	3000+	82+	50000	250 mA
L24T5/835/11P-XT	24	Normal	F14T5HE	8	11	1200	109	120-277	3500	82+	50000	250 mA
L24T5/840/11P-XT	24	Normal	F14T5HE	8	11	1200	109	120-277	4000	82+	50000	250 mA
L24T5/850/11P-XT	24	Normal	F14T5HE	8	11	1200	109	120-277	5000	82+	50000	250 mA
L36T5/830/18P-XT	36	Normal	F21T5HE	9	12	1410	118	120-277	3000+	82+	50000	250 mA
L36T5/835/18P-XT	36	Normal	F21T5HE	9	12	1410	118	120-277	3500	82+	50000	250 mA
L36T5/840/18P-XT	36	Normal	F21T5HE	9	12	1410	118	120-277	4000	82+	50000	250 mA
L36T5/850/18P-XT	36	Normal	F21T5HE	9	12	1410	118	120-277	5000	82+	50000	250 mA
L48T5/830/24P-XT	48	Normal	F28T5HE	11	14	1700	122	120-277	3000+	82+	50000	250 mA
L48T5/835/24P-XT	48	Normal	F28T5HE	11	14	1700	122	120-277	3500	82+	50000	250 mA
L48T5/840/24P-XT	48	Normal	F28T5HE	11	14	1700	122	120-277	4000	82+	50000	250 mA
L48T5/850/24P-XT	48	Normal	F28T5HE	11	14	1700	122	120-277	5000	82+	50000	250 mA

TYPE - C

For T5HE Replacement (360mA Driving Current)

Model No.	Length (in)	Driver Current	Replaces	Lamp Power (W)	System Power (W)	Lumens (lm)	Lamp Efficacy (lm/W)	Lamp Voltage (V)	CCT (K)	CRI	Life (h)	Current Settings
Linear T5												
L24T5/830/11P-XT	24	Normal	F14T5HE	9	12	1300	144	120-277	3000+	82+	50000	360mA
L24T5/835/11P-XT	24	Normal	F14T5HE	9	12	1300	144	120-277	3500	82+	50000	360mA
L24T5/840/11P-XT	24	Normal	F14T5HE	9	12	1300	144	120-277	4000	82+	50000	360mA
L24T5/850/11P-XT	24	Normal	F14T5HE	9	12	1300	144	120-277	5000	82+	50000	360mA
L36T5/830/18P-XT	36	Normal	F21T5HE	13	16	1900	146	120-277	3000+	82+	50000	360mA
L36T5/835/18P-XT	36	Normal	F21T5HE	13	16	1900	146	120-277	3500	82+	50000	360mA
L36T5/840/18P-XT	36	Normal	F21T5HE	13	16	1900	146	120-277	4000	82+	50000	360mA
L36T5/850/18P-XT	36	Normal	F21T5HE	13	16	1900	146	120-277	5000	82+	50000	360mA
L48T5/830/24P-XT	48	Normal	F28T5HE	15	18	2300	153	120-277	3000+	82+	50000	360mA
L48T5/835/24P-XT	48	Normal	F28T5HE	15	18	2300	153	120-277	3500	82+	50000	360mA
L48T5/840/24P-XT	48	Normal	F28T5HE	15	18	2300	153	120-277	4000	82+	50000	360mA
L48T5/850/24P-XT	48	Normal	F28T5HE	15	18	2300	153	120-277	5000	82+	50000	360mA

For T5HO Replacement (500mA Driving Current)

Model No.	Length (in)	Driver Current	Replaces	Lamp Power (W)	System Power (W)	Lumens (lm)	Lamp Efficacy (lm/W)	Lamp Voltage (V)	CCT (K)	CRI	Life (h)	Current Settings
Linear T5												
L24T5/830/11P-XT	24	High	F24T5HO	12	15	1700	142	120-277	3000+	82+	50000	500mA
L24T5/835/11P-XT	24	High	F24T5HO	12	15	1700	142	120-277	3500	82+	50000	500mA
L24T5/840/11P-XT	24	High	F24T5HO	12	15	1700	142	120-277	4000	82+	50000	500mA
L24T5/850/11P-XT	24	High	F24T5HO	12	15	1700	142	120-277	5000	82+	50000	500mA
L36T5/830/18P-XT	36	High	F39T5HO	18	21	2500	139	120-277	3000+	82+	50000	500mA
L36T5/835/18P-XT	36	High	F39T5HO	18	21	2500	139	120-277	3500	82+	50000	500mA
L36T5/840/18P-XT	36	High	F39T5HO	18	21	2500	139	120-277	4000	82+	50000	500mA
L36T5/850/18P-XT	36	High	F39T5HO	18	21	2500	139	120-277	5000	82+	50000	500mA
L48T5/830/24P-XT	48	High	F54T5HO	24	27	3300	138	120-277	3000+	82+	50000	500mA
L48T5/835/24P-XT	48	High	F54T5HO	24	27	3300	138	120-277	3500	82+	50000	500mA
L48T5/840/24P-XT	48	High	F54T5HO	24	27	3300	138	120-277	4000	82+	50000	500mA
L48T5/850/24P-XT	48	High	F54T5HO	24	27	3300	138	120-277	5000	82+	50000	500mA

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LED T8 LAMP WITH EXTERNAL DRIVER | Type C

TYPE - C

Low Output (250mA Driving Current)

Model No.	Length (in)	Driver Current	Replaces	Lamp Power (W)	System Power (W)	Lumens (lm)	Lamp Efficacy (lm/W)	Lamp Voltage (V)	CCT (K)	CRI	Life (h)	Current Settings
Linear T8												
L24T8/830/8G-XT	24	Normal	F17T8	8	11	1200	150	120-277	3000+	82+	50000	250mA
L24T8/835/8G-XT	24	Normal	F17T8	8	11	1200	150	120-277	3500	82+	50000	250mA
L24T8/840/8G-XT	24	Normal	F17T8	8	11	1200	150	120-277	4000	82+	50000	250mA
L24T8/850/8G-XT	24	Normal	F17T8	8	11	1200	150	120-277	5000	82+	50000	250mA
L36T8/830/11G-XT	36	Normal	F25T8	9	12	1400	155	120-277	3000+	82+	50000	250mA
L36T8/835/11G-XT	36	Normal	F25T8	9	12	1400	155	120-277	3500	82+	50000	250mA
L36T8/840/11G-XT	36	Normal	F25T8	9	12	1400	155	120-277	4000	82+	50000	250mA
L36T8/850/11G-XT	36	Normal	F25T8	9	12	1400	155	120-277	5000	82+	50000	250mA
L48T8/830/15G-XT	48	Normal	F32T8	10	13	1600	160	120-277	3000+	82+	50000	250mA
L48T8/835/15G-XT	48	Normal	F32T8	10	13	1600	160	120-277	3500	82+	50000	250mA
L48T8/840/15G-XT	48	Normal	F32T8	10	13	1600	160	120-277	4000	82+	50000	250mA
L48T8/850/15G-XT	48	Normal	F32T8	10	13	1600	160	120-277	5000	82+	50000	250mA

Normal Output (300mA Driving Current)

Model No.	Length (in)	Driver Current	Replaces	Lamp Power (W)	System Power (W)	Lumens (lm)	Lamp Efficacy (lm/W)	Lamp Voltage (V)	CCT (K)	CRI	Life (h)	Current Settings
Linear T8												
L24T8/830/8G-XT	24	Normal	F17T8	9	12	1300	144	120-277	3000+	82+	50000	300mA
L24T8/835/8G-XT	24	Normal	F14T8	9	12	1300	144	120-277	3500	82+	50000	300mA
L24T8/840/8G-XT	24	Normal	F17T8	9	12	1300	144	120-277	4000	82+	50000	300mA
L24T8/850/8G-XT	24	Normal	F14T8	9	12	1300	144	120-277	5000	82+	50000	300mA
L36T8/830/11G-XT	36	Normal	F25T8	11	14	1600	145	120-277	3000+	82+	50000	300mA
L36T8/835/11G-XT	36	Normal	F25T8	11	14	1600	145	120-277	3500	82+	50000	300mA
L36T8/840/11G-XT	36	Normal	F25T8	11	14	1600	145	120-277	4000	82+	50000	300mA
L36T8/850/11G-XT	36	Normal	F25T8	11	14	1600	145	120-277	5000	82+	50000	300mA
L48T8/830/15G-XT	48	Normal	F32T8	12	15	1800	150	120-277	3000+	82+	50000	300mA
L48T8/835/15G-XT	48	Normal	F32T8	12	15	1800	150	120-277	3500	82+	50000	300mA
L48T8/840/15G-XT	48	Normal	F32T8	12	15	1800	150	120-277	4000	82+	50000	300mA
L48T8/850/15G-XT	48	Normal	F32T8	12	15	1800	150	120-277	5000	82+	50000	300mA

High Output (360mA Driving Current)

Model No.	Length (in)	Driver Current	Replaces	Lamp Power (W)	System Power (W)	Lumens (lm)	Lamp Efficacy (lm/W)	Lamp Voltage (V)	CCT (K)	CRI	Life (h)	Current Settings
Linear T8												
L24T8/830/8G-XT	24	High	F17T8	11	14	1600	145	120-277	3000+	82+	50000	360mA
L24T8/835/8G-XT	24	High	F14T8	11	14	1600	145	120-277	3500	82+	50000	360mA
L24T8/840/8G-XT	24	High	F17T8	11	14	1600	145	120-277	4000	82+	50000	360mA
L24T8/850/8G-XT	24	High	F14T8	11	14	1600	145	120-277	5000	82+	50000	360mA
L36T8/830/11G-XT	36	High	F25T8	13	16	1900	146	120-277	3000+	82+	50000	360mA
L36T8/835/11G-XT	36	High	F25T8	13	16	1900	146	120-277	3500	82+	50000	360mA
L36T8/840/11G-XT	36	High	F25T8	13	16	1900	146	120-277	4000	82+	50000	360mA
L36T8/850/11G-XT	36	High	F25T8	13	16	1900	146	120-277	5000	82+	50000	360mA
L48T8/830/15G-XT	48	High	F32T8	15	18	2200	146	120-277	3000+	82+	50000	360mA
L48T8/835/15G-XT	48	High	F32T8	15	18	2200	146	120-277	3500	82+	50000	360mA
L48T8/840/15G-XT	48	High	F32T8	15	18	2200	146	120-277	4000	82+	50000	360mA
L48T8/850/15G-XT	48	High	F32T8	15	18	2200	146	120-277	5000	82+	50000	360mA

LED T8 NANO PLASTIC LAMP WITH EXTERNAL DRIVER | Type C

Low Output (250mA Driving Current)

NANO PLASTIC COMING SOON

Model No.	Length (in)	Driver Current	Replaces	Lamp Power (W)	System Power (W)	Lumens (lm)	Lamp Efficacy (lm/W)	Lamp Voltage (V)	CCT (K)	CRI	Life (h)	Current Settings
Linear T8												
L24T8/830/8P-XT	24	Normal	F17T8	8	11	1200	109	120-277	3000+	82+	50000	250mA
L24T8/835/8P-XT	24	Normal	F17T8	8	11	1200	109	120-277	3500	82+	50000	250mA
L24T8/840/8P-XT	24	Normal	F17T8	8	11	1200	109	120-277	4000	82+	50000	250mA
L24T8/850/8P-XT	24	Normal	F17T8	8	11	1200	109	120-277	5000	82+	50000	250mA
L36T8/830/11P-XT	36	Normal	F25T8	9	11	1350	123	120-277	3000+	82+	50000	250mA
L36T8/835/11P-XT	36	Normal	F25T8	9	11	1350	123	120-277	3500	82+	50000	250mA
L36T8/840/11P-XT	36	Normal	F25T8	9	11	1350	123	120-277	4000	82+	50000	250mA
L36T8/850/11P-XT	36	Normal	F25T8	9	11	1350	123	120-277	5000	82+	50000	250mA
L48T8/830/15P-XT	48	Normal	F32T8	10	13	1600	120	120-277	3000+	82+	50000	250mA
L48T8/835/15P-XT	48	Normal	F32T8	10	13	1600	120	120-277	3500	82+	50000	250mA
L48T8/840/15P-XT	48	Normal	F32T8	10	13	1600	120	120-277	4000	82+	50000	250mA
L48T8/850/15P-XT	48	Normal	F32T8	10	13	1600	120	120-277	5000	82+	50000	250mA

TYPE - C

Normal Output (300mA Driving Current)

Model No.	Length (in)	Driver Current	Replaces	Lamp Power (W)	System Power (W)	Lumens (lm)	Lamp Efficacy (lm/W)	Lamp Voltage (V)	CCT (K)	CRI	Life (h)	Current Settings
Linear T8												
L24T8/830/8P-XT	24	Normal	F17T8	8	11	1200	150	120-277	3000+	82+	50000	300mA
L24T8/835/8P-XT	24	Normal	F14T8	8	11	1200	150	120-277	3500	82+	50000	300mA
L24T8/840/8P-XT	24	Normal	F17T8	8	11	1200	150	120-277	4000	82+	50000	300mA
L24T8/850/8P-XT	24	Normal	F14T8	8	11	1200	150	120-277	5000	82+	50000	300mA
L36T8/830/11P-XT	36	Normal	F25T8	11	14	1600	145	120-277	3000+	82+	50000	300mA
L36T8/835/11P-XT	36	Normal	F25T8	11	14	1600	145	120-277	3500	82+	50000	300mA
L36T8/840/11P-XT	36	Normal	F25T8	11	14	1600	145	120-277	4000	82+	50000	300mA
L36T8/850/11P-XT	36	Normal	F25T8	11	14	1600	145	120-277	5000	82+	50000	300mA
L48T8/830/15P-XT	48	Normal	F32T8	12	15	1800	150	120-277	3000+	82+	50000	300mA
L48T8/835/15P-XT	48	Normal	F32T8	12	15	1800	150	120-277	3500	82+	50000	300mA
L48T8/840/15P-XT	48	Normal	F32T8	12	15	1800	150	120-277	4000	82+	50000	300mA
L48T8/850/15P-XT	48	Normal	F32T8	12	15	1800	150	120-277	5000	82+	50000	300mA

High Output (360mA Driving Current)

Model No.	Length (in)	Driver Current	Replaces	Lamp Power (W)	System Power (W)	Lumens (lm)	Lamp Efficacy (lm/W)	Lamp Voltage (V)	CCT (K)	CRI	Life (h)	Current Settings
Linear T8												
L24T8/830/8P-XT	24	High	F17T8	10	13	1400	140	120-277	3000+	82+	50000	360mA
L24T8/835/8P-XT	24	High	F14T8	10	13	1400	140	120-277	3500	82+	50000	360mA
L24T8/840/8P-XT	24	High	F17T8	10	13	1400	140	120-277	4000	82+	50000	360mA
L24T8/850/8P-XT	24	High	F14T8	10	13	1400	140	120-277	5000	82+	50000	360mA
L36T8/830/11P-XT	36	High	F25T8	13	16	1900	146	120-277	3000+	82+	50000	360mA
L36T8/835/11P-XT	36	High	F25T8	13	16	1900	146	120-277	3500	82+	50000	360mA
L36T8/840/11P-XT	36	High	F25T8	13	16	1900	146	120-277	4000	82+	50000	360mA
L36T8/850/11P-XT	36	High	F25T8	13	16	1900	146	120-277	5000	82+	50000	360mA
L48T8/830/15P-XT	48	High	F32T8	15	18	2200	146	120-277	3000+	82+	50000	360mA
L48T8/835/15P-XT	48	High	F32T8	15	18	2200	146	120-277	3500	82+	50000	360mA
L48T8/840/15P-XT	48	High	F32T8	15	18	2200	146	120-277	4000	82+	50000	360mA
L48T8/850/15P-XT	48	High	F32T8	15	18	2200	146	120-277	5000	82+	50000	360mA