

2024

Product Datasheet

LED Lighting VBDC T5 LED TRAIN Series

VBDC T5 LED TRAIN tubes for Constant Voltage LED driver/ **Battery DC power supply**

>>>>>

service@best-engerysaving-tech.com +886-6-2309930

Contact Us

<<<<<

Benson Energy Saving Technology LED lighting VBDC T5 LED-TRAIN Series

Product feature

Benefits:

- Ideal for Trains, Rapid transit, etc.
- Replace old fluorescent tube with simple fixture modification
- · Save more electricity and other cost
- Extend battery life or playtime
- Long lifespan for LED tube

Safety:

- Fuse protection. Over current /temperature protection
- Shock voltage protection

Reliability:

- · Simple and reliable components design
- Soft start design to protect electronic components and LED chips

Compatibility:

 Function with 24V...110V DC power source from vehicle batter or generator

Easy Installation:

- · Simple fixture rewiring or ballast bypassing
- Reduce maintenance and installation cost

Certification

- EN61000-6-4 → Electromagnetic compatibility (EMC)
- EN61373 \rightarrow Rolling stock equipment. Shock and vibration.
- EN45545 R4 \rightarrow Fire protection on railway vehicles.
- EN50155 \rightarrow Electronic equipment used on rolling stock.
- EN50121-3-2 \rightarrow Rolling stock equipment. Electromagnetic compatibility.
- RoHS →Restriction of Hazardous Substances.



VBDC T5 short LED Tube

Technical Data

Base	G5					
Power supply	Double-ended (two sides)					
Lumen Maintenance at end of serv	0.7					
Rated lamp survival factor at 6,000	>0.9					
Lifetime (hrs)	>50,000			$(\bigcirc \bigcirc)$		
Switching Cycle	>25,000	100 100 100				
Operating Frequency	Constant Voltage	20				
Nominal voltage	24V110V DC power supply	Photometric Curve	T5 Socket	G5 Cap		
Lumen efficacy (options)	100-150lm/W					
Power Factor	>0.9			——————————————————————————————————————		
Power Factor R9						
	>0.9 Г		Α			
R9	>0.9 >1		AB			
R9 CRI	>0.9 >1 82					

Length Model No.	A (mm)	B (mm)	C (mm)	D (mm)
VBDC T5 136mm LED Rail Tube	136	136±1.2	150	17/19
VBDC T5 212mm LED Rail Tube	212	218±1.2	226	17/19
VBDC T5 288mm LED Rail Tube	288	294±1.2	302	17/19
VBDC T5 517mm LED Rail Tube	517	523±1.2	531	17/19
VBDC T5 549mm LED Rail Tube	549	555 ±1.2	563	17/19
VBDC T5 849mm LED Rail Tube	849	855±1.2	863	17/19
VBDC T5 1149mm LED Rail Tube	1149	1155±1.2	1163	17/19
VBDC T5 1449mm LED Rail Tube	1449	1455 ±1.2	1463	17/19

*Geometric parameters (Subject to change without notice)

Standard Wattage

- Higher CRI (such as Ra 95, Ra 90), higher lumen efficacy (such as 150 lm/W), different diffuser cover (such as clear, milky, yellow), special CCT (such as 2000K) and etc. are available upon requests.
- General lighting within ambient temperatures from -20 °C to 45 °C
- These lamps are ideal for use on trains with modern battery chargers that can raise on board voltages to 110 Volts.
- For 12V...24V or 24V...110V Constant Voltage DC power supply

Model No.	ССТ	Lumen efficacy	Lumen	Watt	Driving Voltage
VBDC T5 136mm LED Rail Tube	3000K 4000K-6000K	100 (lm/W) 130 (lm/W)	400 520	4	24V110V
VBDC T5 212mm LED Rail Tube	3000K 4000K-6000K	100 (lm/W) 130 (lm/W)	400 520	4	24V110V
VBDC T5 288mm LED Rail Tube	3000K 4000K-6000K	100 (lm/W) 130 (lm/W)	500 650	5	24V110V
VBDC T5 517mm LED Rail Tube	3000K 4000K-6000K	100 (lm/W) 130 (lm/W)	700 910	7	24V110V
VBDC T5 549mm LED Rail Tube	3000K 4000K-6000K	100 (lm/W) 120 (lm/W)	1000 1200	10	24V110V
VBDC T5 849mm LED Rail Tube	3000K 4000K-6000K	100 (lm/W) 120 (lm/W)	1400 1680	14	24V-110V
VBDC T5 1149mm LED Rail Tube	3000K 4000K-6000K	100 (lm/W) 120 (lm/W)	1800 2160	18	24V110V
VBDC T5 1449mm LED Rail Tube	3000K 4000K-6000K	100 (Im/W) 120 (Im/W)	2100 2520	21	24V110V

* (Subject to change without notice)