PB315 Series

626 WATTS ROLLING STOCK HEADLIGHT CONTROLLER

FEATURES

- Designed to control two locomotive sealed beam headlights, Type GE350PAR56/SP-75.
- Meets EN50155 for operating conditions and EN50121 for EMC / EMI.
- High temp operation without additional heatsinking.
- Ruggedised mechanically for shock and vibration. Input protection against spikes, bursts & high ripple.
- No vent holes, PCB conformal coated. Protection against dust / moisture.



SPECIFICATIONS

72Vin (45-101Vdc) or 110Vin (66-154Vdc)
16A at 72Vin, 12A at 110Vin
16A at 72Vin, 25A at 110Vin
15%
High beam = 68Vdc, Low beam 72Vin = 32Vdc, Low beam 110Vin = 25Vdc
High beam = $9.2A$, Low beam $72Vin = 6.6A$, Low Low beam $110Vin = 6.0A$
626W max
200mV p-p
0.5% at full load
1.5% from 0 to full load
IONS
93% at full load typical
50W at full load typical
Input to Chassis - 2400Vdc Input to Output - 3800Vdc Output to Chassis - 750Vdc
Up to 50C ambient at full load. Derate linearly from 50C full load to 80C zero load
Natural convection. No additional cold plate or heatsinking required
Indefinite. Series diode on input
Indefinate. Series diode on input
Approx 108Vdc for 72Vin, 168Vdc for 110Vin, Auto Recovery
115% of nominal. Auto recovery
Indefinite. Auto recovery
125% nominal, Input cycled off & on to reset
105C internal temperature. Auto restart

Pollution protection	PD3 as per IEC60077-1
Ingress protection	IP40 as per AS1939
Rated inpulse withstand volts	Input 2.5kV, Output 0.8kV as per IEC60077-1
CONTROLS AND ALA	RMS
High/low beam	High beam for control signal < 20Vdc Low beam for 20Vdc < control signal < 154Vdc
On/Off (for 110Vin only)	Unit disabled for control signal < 20Vdc Unit enabled for 20V < control signal < 154Vdc
Headlight Fail	Volt free contact closes under failure conditions
MECHANICAL	
Enclosure	Chassis Mount Aluminium
Dimensions	322L x 150W x 102H including heatsink
Weight	4.0 kg
Terminations	Screw Terminals as standard. Other terminals such as Cage Clamp, Fastons available on request
STANDARDS	
Safety	Meets IEC60077-1, AS/NZS 60950-2000
EMC / EMI	Meets EN50121-3-2:2000 and EN50155
Electrical service conditions	Meets EN50155



Australia & New Zealand





Sydney Head Office 4 Beaumont Road, Mt Kuring-Gai, NSW 2080 Australia



1800 251 380



(⊠)sales@powerbox.com.au





sales@powerbox.co.nz



New Zealand Sales Office

1a Henry Rose Place,

09 4158 320

Albany, Auckland

New Zealand 0632