

PUC-V03



30W IP67 SINGLE OUTPUT SWITCHING POWER SUPPLY



Key Features:

- Constant Voltage Design
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Cooling by free air convection
- Protections: Short Circuit / Over Load/ Over voltage
- Fully encapsulated with IP67 level
- Fully isolated plastic case
- Class II power unit, no FG
- Class 2 power unit
- Pass LPS
- Suitable for LED lighting and moving sign applications
- 100% full load burn-in test
- 2 years warranty

PUC-V03 SPECIFICATION

Part Code	PUC-V03-5	PUC-V03-12	PUC-V03-15	PUC-V03-24	PUC-V03-36
Voltage	90 ~ 264VAC 127 ~ 370VAC				
Frequency	47 ~ 63 Hz				
AC current	1.1A/115VAC 0.7A/230VAC				
Inrush Current (Typ.)	Cold start 55A (twidth=215µs measured at 50% Ipeak) at 230VAC				
Max. No of PSUs on 16A Circuit Breaker	4 units (circuit breaker of type B) / 7 units (circuit breaker of type C) at 230VAC				
Leakage current	<0.25mA/240VAC				
DC Voltage	5V	12V	15V	24V	36V
Rated current	5A	3A	2.4A	1.5A	1A
Current Range	0 ~ 6A	0 ~ 3A	0 ~ 2.4A	0 ~ 1.5A	0 ~ 1A
Rated Power	30W	36W	36W	36W	36W
R&N	80mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p
Efficiency	77%	84%	84%	85%	85%
Voltage Tolerance	±6.0%	±5.0%	±5.0%	±5.0%	±5.0%
Line Regulation	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
Load Regulation	±4.0%	±2.0%	±2.0%	±2.0%	±2.0%
Set up, Rise Time	500ms, 20ms/230VAC 500ms, 20ms/115VAC at full load				
Hold Up Time	50ms/230VAC 16ms/115VAC at full load				
	110 ~ 150% rated output power				
	Overload Protection type: Hiccup mode, recovers automatically after fault condition is removed				
Over Voltage	5.75 ~ 6.7	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	41.4 ~ 48.6V
	Protection Type: Shut off o/p voltage, re-power on to recover				
Working Temperature	-30 ~ +65 °C (Please refer to 'Derating Curve' section)				
Working Humidity	20 ~ 90% RH non-condensing				
Storage Temp., Humidity	-40 ~ +80 °C, 10 ~ 95% RH				
Temp Coefficient	±0.0.3%/°C (0 ~ 50 °C)				
Vibration	10 ~ 500Hz, 2G 10 min./1cycle, period for 60 min. each along X, Y, Z axes				
Safety Standards	UL1310 class 2, CAN/CSA No. 223-M91, BIS IS15885(for LPV-35-12,LPV-35-24 only), EAC TP TC 004, IP67 approved; design refer to TUV EN60950-1				
Withstand voltage	I/P-O/P:3KVAC				
Isolation Resistance	I/P-O/P:>100M Ohms / 500VDC / 25 °C/ 70% RH				
EMC Emission	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2 Class A, EN61000-3-3, EAC TP TC 020				
EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A, EAC TP TC 020				
M.T.B.F.	743.5Khrs min. MIL-HDBK-217F (25 °C)				
Packing	0.34Kg; 40pcs/14.6Kg/0.63CUFT				
Dimensions	148 x 40 x 30mm				



PowerLed (UK) Ltd
Orion House
Calleva Park
Aldermaston
Berkshire
RG7 8SN

Contact:
Tel: 0118 9703856
enquiries@powerled.uk.com
www.powerled.uk.com



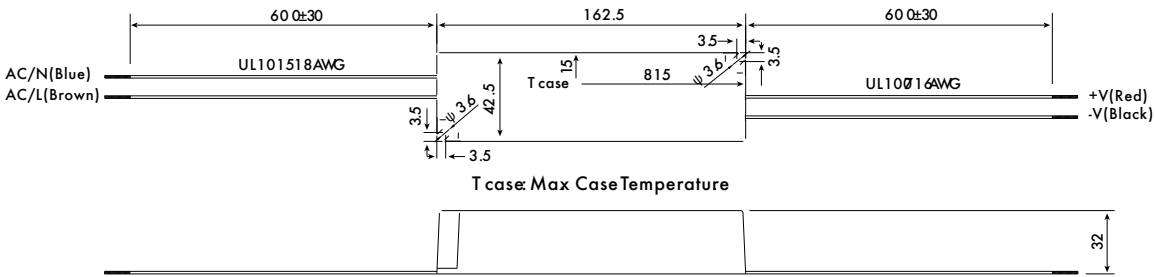
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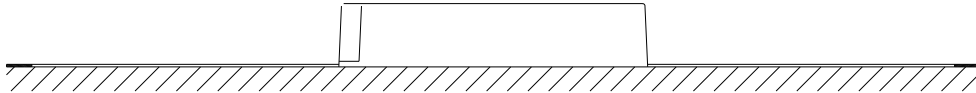
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Mechanical Diagrams

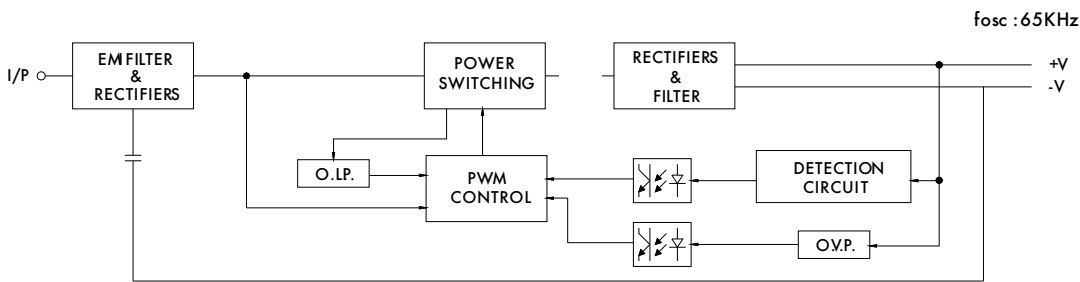
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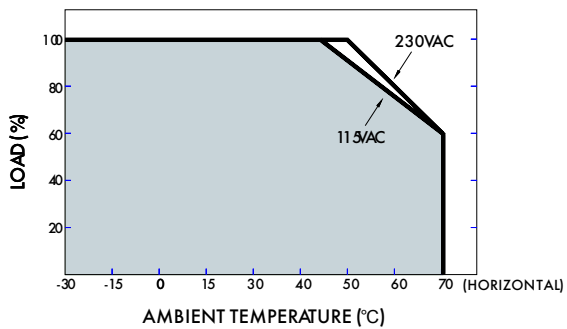
Mounting Recommendation



Block Diagram



Diving Methods of LED Module



Static Characteristic

