

PUC-V02



20W 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-V02 SPECIFICATION

Part Code	PUC-V02-5	PUC-V02-12	PUC-V02-15	PUC-V02-24
Voltage	90 ~ 264VAC 127 ~ 370VAC			
Frequency	47 ~ 63 Hz			
AC current	0.55A/115VAC 0.35A/230VAC			
Inrush Current (Typ.)	Cold start 70A (twidth=215µs measured at 50% Ipeak) at 230VAC			
Max. No of PSUs on 16A Circuit Breaker	8 units (circuit breaker of type B) / 14 units (circuit breaker of type C) at 230VAC			
Leakage current	<0.25mA/240VAC			
DC Voltage	5V	12V	15V	24V
Rated current	3A	1.67A	1.33A	0.84A
Current Range	0 ~ 3A	0 ~ 1.67A	0 ~ 1.33A	0 ~ 0.84A
Rated Power	15W	20W	20W	20.2W
Peak Load (10 secs)	10.89W	16.5W	16.5W	16.56W
R&N	80mVp-p	120mVp-p	120mVp-p	150mVp-p
Efficiency	77%	81%	83%	83%
Voltage Tolerance	±5.0%	±5.0%	±5.0%	±5.0%
Line Regulation	±1.0%	±1.0%	±1.0%	±1.0%
Load Regulation	±2.0%	±2.0%	±2.0%	±2.0%
Set up, Rise Time	1000ms, 20ms/230VAC 500ms, 20ms/115VAC at full load			
Hold Up Time	50ms/230VAC 16ms/115VAC at full load			
Overload	110 ~ 150% rated output power			
Over Voltage	Protection type Hiccup mode, recovers automatically after fault condition is removed			
	5.75 ~ 6.75V	13.8 ~ 16V	17.5 ~ 21V	28 ~ 32V
	Protection Type: Shut off o/p voltage, clamping by zener diode			
Working Temperature	-30 ~ +70 °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	UL879, UL1310, CSA C22.2 No. 207-M89,CAN/CSA C22.2 No. 223-M91,TUV EN60950-1, EAC TP TC 004, IP67 approved			
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.	786.5Khrs min. MIL-HDBK-217F (25 °C)			
Packing	0.22Kg; 60pcs/14.2Kg/0.62CUFT			
Dimensions	118 x 35 x 26mm			



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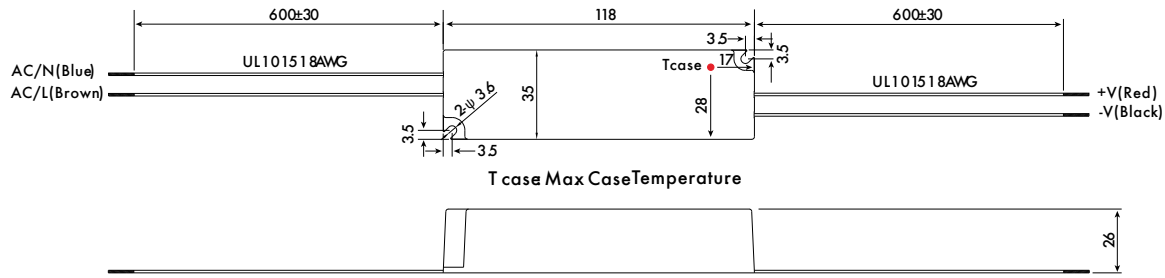


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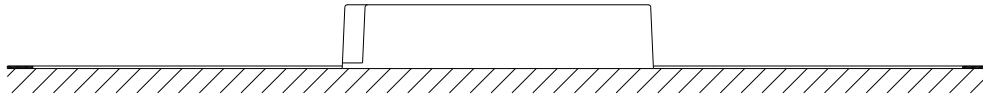
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Mechanical Diagrams

Unit:mm

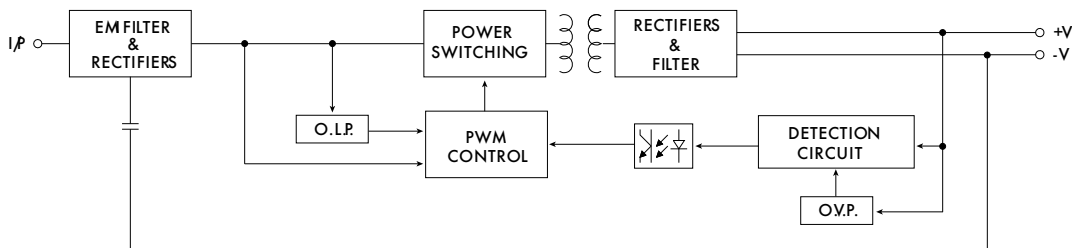


Mounting Recommendation

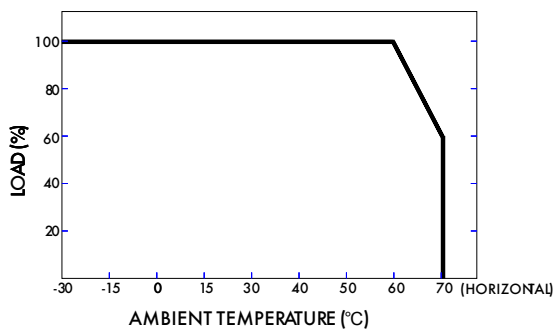


Block Diagram

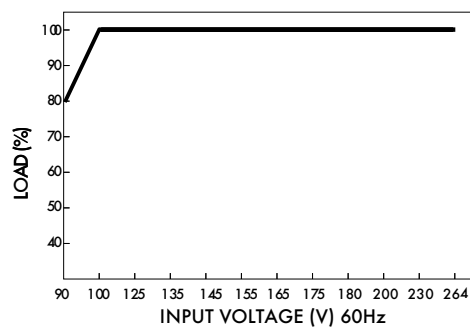
fosc : 65KHz



Derating Curve



Static Characteristic



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