

PRODUCT SPECIFICATIONS

Material: Aluminium

Colour: Silver

Input Voltage: 240v AC

Output Voltage: 12v DC Constant Voltage

Output Power: 20w*

No. Output Cables: 1

Wiring: Parallel

IP Rating: IP66

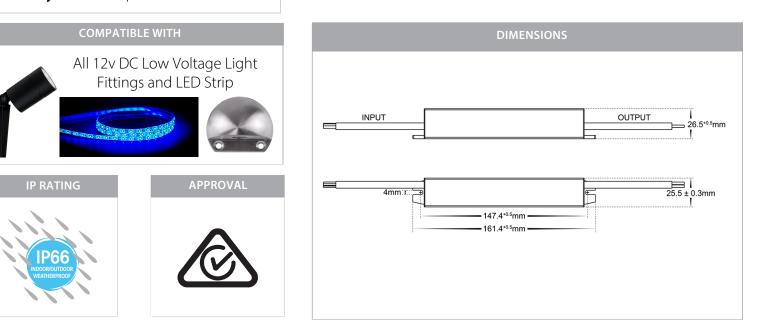
Dimmable: No

Warranty: 2 Years Replacement**

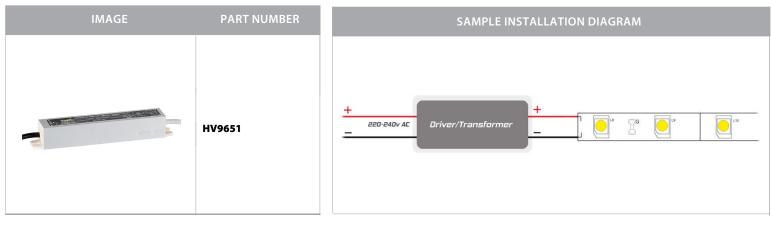




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Product Ordering



* Recommended maximum Load of 16w

** See Warranty Terms and Conditions for more information

For more information contact Havit Lighting

ADDRESS: 143 Beauchamp Road Matraville NSW 2036 Australia



	DC Voltage	12V	
	Rated Current	1.66A	
	Current Range	0-1.66A	
	Rated Power	20W	
	Ripple and Noise(max)	120mVp-p	
Output	Voltage Tolerance	±4%	
	Line Regulation	±1%	
	Load Regulation	±2%	
	No. Output Cables	1	
	Set up time	2000ms, 50ms(at full load)110Vac/230Vac	
	Holding time(Typ.)	15ms(at full load) 110Vac/230Vac	
	Voltage range Note 2	90~264Vac	
	Frequency range	47~63Hz	
	Power factor(Typ.)	PF≥0.45/230V (at full load)	
Input	Efficiency(Typ.)	84%	
	AC current	0.32A/230Vac	
	Inrush current(Typ.)	Cold start: 50A/230Vac	
	Leakage current	<0.75mA/240Vac	
		104%-140% of the rated output power	
	Over load	Protection mode: constant current limiting, recovers automatically after the load reduced.	
	Short circuit	Protection type: Hiccup mode, recovers automatically after fault conditions removed	
Protection		13-18V	
	Over voltage	Protection type: Hiccup mode, recovers automatically after fault conditions removed	
	<u> </u>	Ta: 60°C~70°C	
	Over temperature	Protection type: Hiccup mode, recovers automatically after fault conditions removed	
	Working temperature	Ta: -25°C∼ +50°C	
	Working humidity	10%~90%RH, non-condensing	
Environment	Storage temp. and humidity	-25°C ~+75°C, 5%~95%RH	
Environment	Temp. coefficient	±0.05%/°C (0~40°C)	
	Vibration	10-300Hz, 1G 10min./cycle, period for 60min. each along X, Y, Z axes	
	Safety standards	Compliance to EN61347-1, EN61347-2-13, AS/NZS61347 1, Ip66 waterproof rating.	
Safety	Withstand voltage	I/P-O/P: 3.75KVAC I/P-FG: 1.875KVAC O/P-FG: 0.5kVAC	
and EMC	Insolation resistance	I/P-O/P, I/P-FG, O/P-FG: 100Mohms/500Vdc 25°C /70%RH	
	EMC Emission	Compliance to AS/NZS CISPR15	
	EMC Immunity	Compliance to AS/NZS CISPR15	

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PRODUCT SPECIFICATIONS

Material: Aluminium

Colour: Silver

Input Voltage: 240v AC

Output Voltage: 12v DC or 24v DC

Output Power: 30w*

No. Output Cables: 1

Wiring: Parallel

IP Rating: IP66

Dimmable: No

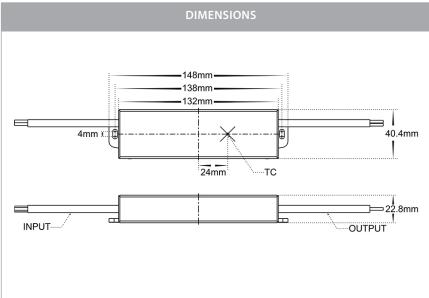
Warranty: 2 Years Replacement**



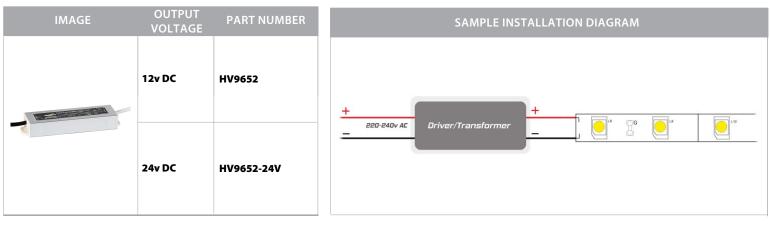


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Product Ordering



* Recommended maximum Load of 24w

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	DC Voltage	12V	24V	
	Rated Current	2.5A	1.25A	
	Current Range	0-2.5A	0-1.25A	
	Rated Power	30W	30W	
	Ripple and Noise(max)	120mVp-p	240mVp-p	
Output	Voltage Tolerance	±4%	±2%	
	Line Regulation	±1%	±1%	
	Load Regulation	±2%	±2%	
	No. Output Cables	1	1	
	Set up time	2000ms, 50ms(at full load)110Vac/230Vac		
	Holding time(Typ.)	15ms(at full load) 110Vac/230Vac		
	Voltage range Note 2	90~264Vac		
	Frequency range	47~63Hz		
	Power factor(Typ.)	PF≥0.45/230V (at full load	PF≥0.45/230V (at full load)	
Input	Efficiency(Typ.)	84%	85%	
	AC current	0.32A/230Vac		
	Inrush current(Typ.)	Cold start: 50A/230Vac		
	Leakage current	<0.75mA/240Vac	<0.75mA/240Vac	
	Over load	104%-140% of the rated output power		
		Protection mode: constant current limiting, recovers		
		automatically after the load reduced.		
	Short circuit	Protection type: Hiccup mode, recovers automatically		
_		after fault conditions remo	1	
Protection	Over voltage	13-18V	24.5-35V	
		Protection type: Hiccup mode, recovers automatically after fault conditions removed		
		Ta: 60°C~70°C	Ved	
	Over temperature			
		Protection type: Hiccup mode, recovers automatically after fault conditions removed		
	Working temperature	Ta: -25°C~ +50°C		
	Working humidity	10%~90%RH, non-condensing		
- · ·	Storage temp. and humidity	-25°C ~+75°C, 5%~95%RH	<u> </u>	
Environment	Temp. coefficient	±0.05%/°C (0~40°C)		
	Vibration	10-300Hz, 1G 10min./cycle, period for 60min. each along		
		X, Y, Z axes		
	Safety standards	Compliance to EN61347-1,	EN61347-2-13, AS/NZS61347-	
		1, Ip66 waterproof rating.		
Safety and	Withstand voltage	I/P-O/P: 3.75KVAC I/P-FG: 1.875KVAC O/P-FG: 0.5kVAC		
EMC	Insolation resistance	I/P-O/P, I/P-FG, O/P-FG: 100Mohms/500Vdc 25°C /70%RH		
Line	EMC Emission	Compliance to AS/NZS CISPR15		
	EMC Immunity	Compliance to AS/NZS CISPR15		

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PRODUCT SPECIFICATIONS

Material: Aluminium

Colour: Silver

Input Voltage: 240v AC

Output Voltage: 12v DC or 24v DC

Output Power: 60w*

No. Output Cables: 1

Wiring: Parallel

IP Rating: IP66

Dimmable: No

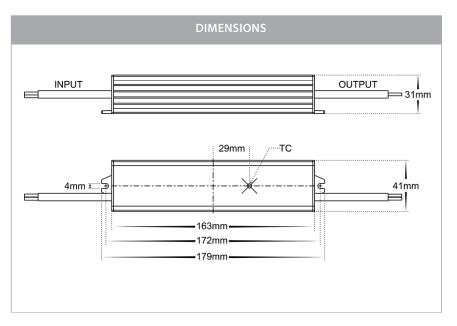
Warranty: 2 Years Replacement**



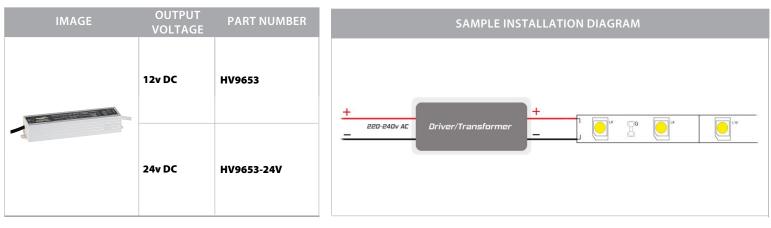


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Product Ordering



* Recommended maximum Load of 80w

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	DC Voltage	12V	24V	
	Rated Current	5A	2.5A	
	Current Range	0-5A	0-2.5A	
	Rated Power	60W	60W	
Output	Ripple and Noise(max)	120mVp-p	240mVp-p	
	Voltage Tolerance	±4%	±2%	
	Line Regulation	±1%	±1%	
	Load Regulation	±2%	±2%	
	No. Output Cables	1	1	
	Set up time	2000ms, 50ms(at full load)110Vac/230Vac		
	Holding time(Typ.)	15ms(at full load) 110Vac/230Vac		
	Voltage range Note 2	90~264Vac		
	Frequency range	47~63Hz		
	Power factor(Typ.)	PF≥0.45/230V (at full loa	PF≥0.45/230V (at full load)	
Input	Efficiency(Typ.)	87%	88%	
	AC current	0.7A/230Vac		
	Inrush current(Typ.)	Cold start: 50A/230Vac		
	Leakage current	<0.75mA/240Vac		
	Over load	104%-125% of the rated output power		
		Protection mode: constant current limiting, recovers automatically after the load reduced.		
	Short circuit	Protection type: Hiccup mode, recovers automatically after fault conditions removed		
Protection	Over voltage	13-18V	24.5-35V	
rocectori		Protection type: Hiccup mode, recovers automatically after fault conditions removed		
		Ta: 60°C~70°C		
	Over temperature	Protection type: Hiccup mode, recovers automatically after fault conditions removed		
Environment	Working temperature	Ta: -25°C~ +50°C		
	Working humidity	10%~90%RH, non-condensing		
	Storage temp. and humidity	-25°C ~+75°C, 5%~95%RH	-25°C ~+75°C, 5%~95%RH	
	Temp. coefficient	±0.05%/°C (0~40°C)		
	Vibration	10-300Hz, 1G 10min./cycle, period for 60min. each along X, Y, Z axes		
Safety and EMC	Safety standards	Compliance to EN61347-1, EN61347-2-13, AS/NZS61347- 1, Ip66 waterproof rating.		
	Withstand voltage	I/P-O/P: 3.75KVAC I/P-FG: 1.875KVAC O/P-FG: 0.5kVAC		
	Insolation resistance	I/P-O/P, I/P-FG, O/P-FG: 100Mohms/500Vdc 25°C /70%RH		
	EMC Emission	Compliance to AS/NZS CISPR15		
	EMC Immunity	Compliance to AS/NZS CISPR15		

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PRODUCT SPECIFICATIONS

Material: Aluminium

Colour: Silver

Input Voltage: 240v AC

Output Voltage: 12v DC or 24v DC

Output Power: 100w*

No. Output Cables: 1

Wiring: Parallel

IP Rating: IP66

Dimmable: No

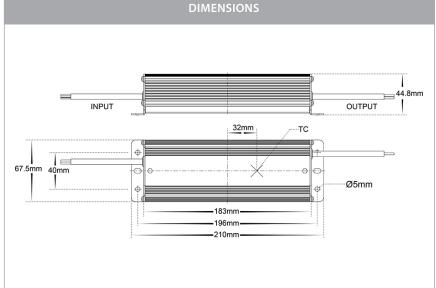
Warranty: 2 Years Replacement**



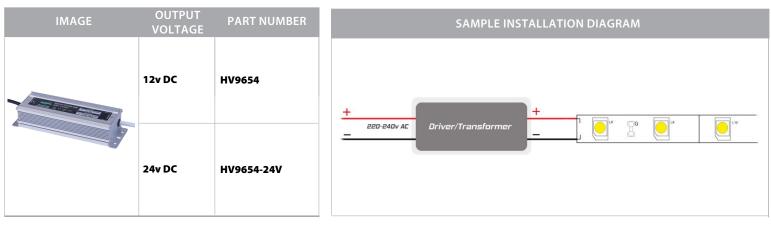


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* Recommended maximum Load of 80w

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	DC Voltage	12V	24V	
	Rated Current	8.33A	4.17A	
	Current Range	0-8.33A	0-4.17A	
	Rated Power	100W	100W	
	Ripple and Noise(max)	120mVp-p	240mVp-p	
Output	Voltage Tolerance	±4%	±2%	
	Line Regulation	±1%	±1%	
	Load Regulation	±2%	±2%	
	No. Output Cables	1	1	
	Set up time	2000ms, 50ms(at full load)110Vac/230Vac		
	Holding time(Typ.)	15ms(at full load) 110Vac/230Vac		
	Voltage range Note 2	90~264Vac		
	Frequency range	47~63Hz		
	Power factor(Typ.)	PF≥0.45/230V (at full load)	
Input	Efficiency(Typ.)	87%	88%	
	AC current	1.05A/230Vac	1.05A/230Vac	
	Inrush current(Typ.)	Cold start: 55A/230Vac		
	Leakage current	<0.75mA/240Vac		
		102%-120% of the rated output power		
	Over load	Protection mode: constant current limiting, recovers		
		automatically after the load reduced.		
	Short circuit	Protection type: Hiccup mode, recovers automatically after fault conditions removed		
Protection	Over voltage	13-18V	24.5-35V	
		Protection type: Hiccup mode, recovers automatically after fault conditions removed		
		Ta: 60°C~70°C		
	Over temperature	Protection type: Hiccup mode, recovers automatically after fault conditions removed		
	Working temperature	Ta: -25°C∼ +50°C		
	Working humidity	10%~90%RH, non-condensing		
Environment	Storage temp. and humidity	-25°C ~+75°C, 5%~95%RH	-25°C ~+75°C, 5%~95%RH	
Environment	Temp. coefficient	±0.05%/°C (0~40°C)	±0.05%/°C (0~40°C)	
	Vibration	10-300Hz, 1G 10min./cycle, period for 60min. each along		
		X, Y, Z axes		
	Safety standards	Compliance to EN61347-1, EN61347-2-13, AS/NZS61347- 1, Ip66 waterproof rating.		
Safety	Withstand voltage	I/P-O/P: 3.75KVAC I/P-FG: 1.875KVAC O/P-FG: 0.5kVAC		
and EMC	Insolation resistance	I/P-O/P, I/P-FG, O/P-FG: 100Mohms/500Vdc 25°C /70%RH		
EIVIC	EMC Emission	Compliance to AS/NZS CISPR15		
	EMC Immunity	Compliance to AS/NZS CISPR15		

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