

20W SWITCHING POWER SUPPLY SINGLE OUTPUT WL-20 Series

Dimension

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L:138 mm W:30 mm H:19mm Weight: 0.074Kg



■Applications Features .Industrial automation machiner .Protection: short-circuit, overload .Industrial control system ·cooling by free air convection .Testing and measuring instrum (.LED indicator for power on .Household appliances ·100% full-load aged .Led lighting appliances ·No-load consumption \leq 0.7W .Aging equipment ·Withstand 300VAC surge input for 5 seconds .IT communication equipment \cdot Working temperature up to 60°C

·5G vibration tested

·High efficiency,long life,high reliability

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CE	IEC62368-1	EN62368-1 EN61558-1 EN61558-2-16

Product No. WI-20-12 WI-20-24 DC voltage 12V 24V	Specifications	cecifications CE CE366-1							
Notice 1.67A 0.83A	P	roduct No.	WL-20-12	WL-20-24					
Current Range 0-1.67A D-0.83A Image Image <thimage< th=""> Image Image</thimage<>		DC voltage	12V	24V					
Number 20W 20W<		Rated Current	1.67A	0.83A					
Biple and Noise(Max/Note.2 150m/p.p 240m/p.p Image		Current Range	0-1.67A	0-0.83A					
Output Voltage adjustment 10.8-13.2V 22-27.6V Image adjustment Image adjustment Voltage Accuracy, Note3 115 115 115 Image adjustment Image adjustment </td <td></td> <td>Rated Power</td> <td>20W</td> <td>20W</td> <td></td> <td></td> <td></td> <td></td>		Rated Power	20W	20W					
Voltage Accuracy Note3 ±1%		Ripple and Noise(Max)Note.2	150mVp-p	240mVp-p					
Linear Adjustment Note4 ±0.5% ±0.5	Output	Voltage adjustment	10.8-13.2V	22-27.6V					
Load Adjustment NoteS ±0.5% ±0.5% ±0.5% ±0.000m;,300m;/230/AC 100m;,300m;/110/ Hold time (Typ) 50m;/230/AC 10m;/115AC 50m;/230/AC 10m;/115AC 50m;/230/AC 10m;/115AC Input Voltage range 47-63H2 50m;/230/AC 10m;/115AC Efficiency (Typ) 80% 81% 100 AC current (Typ) 80% 81% 100 Current leak		Voltage Accuracy Note3	±1%	±1%					
Start and rise time 1000m 30m/230VAC 1000m;30m//110V Hold time (Typ) 50m/230VAC 100m/315AC Voltage range 100-220VAC Frequency range 47-63HZ Efficiency (Typ) 80% 81% Accurrent (Typ) 0.57A/100V 0.23/220VAC Surge current (Typ) 0.57A/100V 0.23/220V Gurrent Top) 0.57A/100V 0.23/220V <t< td=""><td></td><td>Linear Adjustment Note4</td><td>±0.5%</td><td>±0.5%</td><td></td><td></td><td></td><td></td></t<>		Linear Adjustment Note4	±0.5%	±0.5%					
Hold time (Typ) Soms/230/AC 10ms/115AC Voltage range 100-240/AC Prequency range 47-63H2 Efficiency (Typ) 80% 81%		Load Adjustment Note5	±0.5%	±0.5%					
Hold time (Typ) S0ms/230VAC 10ms/115AC Voltage range 100-240VAC Frequency range 47-53H2 Efficiency (Typ) 80% 81%		Start and rise time			1000ms,30ms/230V	AC 1000ms,30ms/	/110V		
Frequency range 47-63H2 Efficiency (Typ) 80% 81%		Hold time (Typ)							
Input Efficiency (Typ) 80% 81% Imput AC current (Typ) 0.57A/100V 0.23A/220V Surge current (Typ) 0.57A/100V 0.23A/220VAC Current leak <		Voltage range			100-3	240VAC			
Input AC current (Typ) 0.57A/100V 0.23A/220V Surge current (Typ) Cold start: 65A/230VAC Current Eak <ambdd>clarger than 105% of capacity Overload Protection type : Hiccup mode, recovers automatically after fault condition is removed Overvoltage Overload Protection type : Hiccup mode, recovers automatically after fault condition is removed Overvoltage Overload Working turnindity 200~+60°C (Refer to the tenuation curve) Working turnindity 200~90% RH, without condense Storage temp & hmdty 400~+80°C Temp. coefficient 40.03%/C°C (00~50°C) Vibration proof 100~500HZ,5610min / cycle, X. Y. 2 axes 60 min each Safety regu& Storage temp & hmdty GB195110.1:2004/IEC61347-1:2003 CE(EMC+LVD) Vibration proof 1/P-01.15KVAC 1/P-FG.15KVAC 0/P-FG.05KVAC Insulation resistance 1/P-0/P.1/P-FG.0/P-FG:100M Ohms/500VDC/25°C/70% RH (Note 6) EMC disturbance proof EN 5502A:2006;EN10000 -3:21995+A2:2005 EMC disturbance proof EN 5502A:2006;EN10000 -3:21995+A2:2005 EMC disturbance proof 11838/30X1mm(L*W*h) <t< td=""><td></td><td>Frequency range</td><td></td><td></td><td>47-</td><td>63HZ</td><td></td><td></td></t<></ambdd>		Frequency range			47-	63HZ			
AC current (Typ) 0.57A/100V 0.23A/220V Surge current (Typ) Cold start: 65A/230VAC Current leak <am 240vac<="" td=""> Overload Protection type : Hiccup mode, recovers automatically after fault condition is removed Overload Protection type : Hiccup mode, recovers automatically after fault condition is removed Overloage </am>		Efficiency (Typ)	80%	81%					
Current leak <2mA/240VAC Current leak <2mA/240VAC	Input	AC current (Typ)			0.57A/100	/ 0.23A/220V			
Protection Larger than 105% of capacity Protection Larger than 105% of capacity Protection type : Hiccup mode, recovers automatically after fault condition is removed Overload Protection type : Hiccup mode, recovers automatically after fault condition is removed Overheat		Surge current (Typ)							
Overfoad Protection type : Hiccup mode, recovers automatically after fault condition is removed Overvoltage		Current leak							
Protection Protection type : Hiccup mode, recovers automatically after fault condition is removed Protection Overvoltage Image: Control of the second s		Overload							
Image: Constant of the second seco			Protection type : Hiccup mode, recovers automatically after fault condition is removed						
Image: Constant of the second seco		Overvoltage							
Image: constraint of the second se	Protection						1	1	
EnvironmentWorking humidity20~90% RH, without condenseEnvironmentStorage temp & hmdty-40~+80°CTemp. coefficient10.03%/°C (0~50°C)Vibration proof10~500HZ,56 10min / cycle, X, Y, Z axes 60 min eachSafety reg. & EtWCSafety regulationGB195110.1-2004/IEC61347-1:2003 CE(EMC+LVD)Voltage proof1/P-01.5KVAC 1/P-FG:1.5KVAC O/P-FG:0.5KVACinsulation resistance1/P-0/P, I/P-GO/P-FG:00M Ohms/500VDC/25°C/70% RHEMC (irradiationEN 55022A:2006;EN61000-3-2:1995+A2:2005EMC disturbance proofEN 61000-3-2:2006;Dimensions138x30x19mm(L*W*H)Packing0.074kg/PC5;150PC5/11.2kgAnalyze and noise are measured at 230VAC input, rated load and 25°C of ambient temperature.2.Ripple and noise are measured at 20MHz bandwidth by using a 12″ twisted pair-wire terminated with a 0.1µF and a 47 µF parallel capacitor.3.Accuracy: including preset errors, linear adjustment rate and load adjustment rate.4.Linear adjustment: taken under rated load from low voltage to high voltage.5.Load adjustment: taken under or 100% of rated load.		Overheat							
EnvironmentStorage temp & hmdty-40~+80 °CTemp. coefficient±0.03%/°C (0~50°C)Vibration proof10~500HZ,5G 10min / cycle, X, Y, Z axes 60 min eachSafety reg. & EMC (Note.6)Safety regulationSafety reg. & EMC (Note.6)Voltage proofIsulation resistanceI/P-O/P, I/P-GG/P-FG:15KVAC O/P-FG:0.5KVACEMC irradiationEN 55022A:2006;EN61000-3-2:1995+A2:2005EMC disturbance proofEN 55022A:2006;EN61000-3-2:1995+A2:2005EMC disturbance proof0.074kg/PCS;150PCS/11.2kgPacking0.074kg/PCS;150PCS/11.2kgAuge and noise are measured at 230VAC input, rated load and 25°C of ambient temperature.2.Ripple and noise are measured at 20MHz bandwidth by using a 12″ twisted pair-wire terminated with a 0.1µF and a 47 µF parallel capacitor.3.Accuracy: including preset errors, linear adjustment rate and load adjustment rate.4.Linear adjustment: taken under rated load from low voltage to high voltage.5.Load adjustment: taken under or 100% of rated load.		Working temp.	-20 \sim +60 $^{\circ}$ C (Refer to the tenuation curve)						
Temp. coefficient±.0.3%/°C(0~50°C)Vibration proof10~500HZ,5G 10min / cycle, X, Y, Z axes 60 min eachSafety regulationGB195110.1-2004/IEC61347-1:2003 CE(EMC+LVD)Voltage proofI/P-O:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVACinsulation resistanceI/P-O/P, I/P-FG,O/P-FG:100M Ohms/500VDC/25°C/70% RHEMC cirradiationEN 55022A:2006;EN61000-3-2:1995+A2:2005EMC disturbance proofEN 61000-3-2:2006;Imensions138x30x19mm(L*W*H)Packing0.074kg/PC5;150PC5/11.2kgI. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.2.Rippel and noise are measured at 20MHz bandwidth by using a 12″ twisted pair-wire terminated with a 0.1µF and a 47 µF parallel capacitor.3.Accuracy: including preset errors, linear adjustment rate and load adjustment rate.4.Linear adjustment: taken under rated load from low voltage to high voltage.5.Load adjustment: taken under °100% of rated load.		Working humidity							
Vibration proof10~500HZ,5G 10min / cycle, X, Y, Z axes 60 min eachSafety regulationGB195110.1-2004/IEC61347-1:2003 CE(EMC+LVD)Voltage proofI/P-O/1.5KVAC I/P-FG:1.5KVAC 0/P-FG:0.5KVACinsulation resistanceI/P-O/P, I/P-FG,0/P-FG:100M Ohms/500VDC/25°C/70% RHEMC irradiationEN 55022A:2006;EN61000-3-2:1995+A2:2005EMC disturbance proofEN 61000-3-2:2006;binensions138x30x19mm(L*W*H)Packing0.074kg/PCS;150PCS/11.2kg1. All parameters NOT specially metrineed are measured at 230VAC input, rated load and 25°C of ambient temperature.2.Ripple and noise are measured at 20MHz bandwidth by using a 12″ twisted pair-wire terminated with a 0.1µF and a 47 µF parallel capacitor.3.Accuracy: including preset errors, linear adjustment rate and load adjustment rate.4.Linear adjustment: taken under rated load from low voltage to high voltage.5.Load adjustment: taken under o~100% of rated load.	Environment	Storage temp & hmdty	-40∼+80°C						
Safety regulation GB195110.1-2004/IEC61347-1:2003 CE(EMC+LVD) Voltage proof I/P-0:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC insulation resistance I/P-O/P, I/P-FG,0/P-FG:100M Ohms/500VDC/25°C/70% RH EMC irradiation EN 55022A:2006;EN61000-3-2:1995+A2:2005 EMC disturbance proof EN 61000-3-2:2006; Dimensions 138x30x19mm(L*W*H) Packing 0.074kg/PCS;150PCS/11.2kg 1. All parameters NOT specially mentinoed are measured at 230VAC input, rated load and 25°C of ambient temperature. 2.Ripple and noise are measured at 20MHz bandwidth by using a 12″ twisted pair-wire terminated with a 0.1µF and a 47 µF parallel capacitor. 3.Accuracy: including preset errors, linear adjustment rate and load adjustment rate. 4.Linear adjustment: taken under rated load from low voltage to high voltage. 5.Load adjustment: taken under 0~100% of rated load.		Temp. coefficient	±0.03%/°C (0~50°C)						
Safety reg. & EMC (Note.6)Voltage proofI/P-O:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC insulation resistanceInsulation resistanceI/P-O/P, I/P-FG,0/P-FG:100M Ohms/500VDC/25°C/70% RHEMC irradiationEN 55022A:2006;EN61000-3-2:1995+A2:2005EMC disturbance proofEN 61000-3-2:2006;DimensionsDimensionsPacking0.074kg/PCS;150PCS/11.2kg1. All parameters NOT specially mentinoed are measured at 230VAC input, rated load and 25°C of ambient temperature.2. Ripple and noise are measured at 20MHz bandwidth by using a 12″ twisted pair-wire terminated with a 0.1µF and a 47 µF parallel capacitor.3. Accuracy: including preset errors, linear adjustment rate and load adjustment rate.4. Linear adjustment: taken under rated load from low voltage to high voltage.5. Load adjustment: taken under 0°-100% of rated load.		Vibration proof	10 \sim 500HZ,5G 10min / сусle,X、Y、Z axes 60 min each						
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(Note.6) Instalation resistance I/P-O/P, I/P-FG;0/P-FG;00M Onms/S00VDC/2S C/7/% RH EMC irradiation EN 55022A:2006;EN61000-3-2:1995+A2:2005 EMC disturbance proof EN 61000-3-2:2006; Dimensions 138x30x19mm(L*W*H) Packing 0.074kg/PCS;150PCS/11.2kg I. All parameters NOT specially mentinoed are measured at 230VAC input, rated load and 25°C of ambient temperature. 2.Ripple and noise are measured at 20MHz bandwidth by using a 12″ twisted pair-wire terminated with a 0.1µF and a 47 µF parallel capacitor. 3.Accuracy: including preset errors, linear adjustment rate and load adjustment rate. 4.Linear adjustment: taken under rated load from low voltage to high voltage. 5.Load adjustment: taken under 0~100% of rated load.		Voltage proof	I/P-O:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC						
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Notes: 1. All parameters NOT specially mentinoed are measured at 230VAC input, rated load and 25 °C of ambient temperature. 2.Ripple and noise are measured at 20MHz bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF and a 47 µF parallel capacitor. 3.Accuracy: including preset errors, linear adjustment rate and load adjustment rate. 4.Linear adjustment: taken under rated load from low voltage to high voltage. 5.Load adjustment: taken under 0~100% of rated load.		Dimensions	138x30x19mm(L*W*H)						
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Notes: 3.Accuracy: including preset errors, linear adjustment rate and load adjustment rate. 4.Linear adjustment: taken under rated load from low voltage to high voltage. 5.Load adjustment: taken under 0~100% of rated load.		1. All parameters NOT specially n	nentinoed are me	asured at 230VAC	input, rated load and 25°	C of ambient tem	nperature.		
Notes: 4.Linear adjustment: taken under rated load from low voltage to high voltage. 5.Load adjustment: taken under 0~100% of rated load.		2.Ripple and noise are measured at 20MHz bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF and a 47 µF parallel capacitor.							
4.Linear adjustment: taken under rated load from low voltage to high voltage. 5.Load adjustment: taken under 0~100% of rated load.		3.Accuracy: including preset errors, linear adjustment rate and load adjustment rate.							
	Notes:								
6. The power supply is taken as part of the whole system, and needs to be confirmed with final equipment for EMC.		5.Load adjustment: taken under 0~100% of rated load.							
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