

Title: Furniture Power Distribution Units

Protocol No.: KOHL'S-335-D Tier 1/Tier 2/Tier 3

Test Property	Test Method	Samples	Test Principle / Requirements	Rating
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LABELING				
Language requirement	Visual check	All	English shall be used for the text information provided with the product, such as instructions and markings.	
Labeling / Packaging Review	FPLA 16 CFR 500 & 19 CFR 134	All	Should be legibly marked with the following information: <ul style="list-style-type: none"> Distributor's name, trademark or other means of identification of the manufacturer or packer & address (City, State & Zip) Product identification Net quantity of the contents in terms of weight, measure or numerical count (Metric & US Standard) or a combination so as to give accurate information and facilitate value comparison by the consumer Country of origin (if imported) 	
Verify Label Claims	Visual Check	All	The labeling must comply and valid with all claims.	
Regulatory Listing Mark	Visual Check	All	Should have valid NRTL Listing mark , e.g. UL , ETL or equivalent	
Product Marking	UL 962A Cls. 53.5	All	A FPDU shall be marked with: <ol style="list-style-type: none"> The manufacturer's name, trade name, trademark, or other descriptive marking by which the organization responsible for the product is identified; The distinctive catalog number or equivalent; The FPDU electrical rating in volts, amperes, and frequency; and The date or other dating period of manufacture not exceeding any three consecutive months. 	
Switch Marking	UL 962A Cls. 53.9	All	A switch without an associated pilot light shall be marked "on"/" off" ² , "1"/" 0", or the equivalent, to indicate to the user when the receptacles are energized when the FPDU is connected to a power-supply. The marking shall be either on the switch or on an adjacent part of the enclosure.	
Location Marking	UL 962A Cls. 53.11	All	Shall be marked to indicate that the product is intended for indoor use only, with the word "CAUTION:" and the following or equivalent: "To Reduce the Risk of Electric Shock – Use Only Indoors".	
FCC Labeling & Instructions	FCC Part15		FCC Labeling and Instructions shall be provided per the requirements of FCC rules.	

REGULATORY & STANDARD				
UL Standard Compliance	General requirement	All	Safety report (if necessary), and Certificate shall be provided for document review. The product shall be certificated for the intended application per UL standard.	

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FCC Compliance	FCC Rules	All	For product subjected to FCC SDOC test report shall be rendered. – FCC Report Valid for 2 Years – if there is any change in the product or regulations of the FCC the vendor MUST complete retesting For product subjected to FCC SDOC or FCC Certificate, test report issued by authorized lab shall be rendered. For authorized lab: https://apps.fcc.gov/oetcf/eas/reports/TestFirmSearch.cfm	
DOE Requirement For External Power Supply	10 CFR 430	1	- Valid test report should be provided for checking. - Shall be clearly and permanently marked efficiency level in Roman numeral - Product with the sample's model number & rating shall can be found in DOE compliance certification database	

PHYSICAL CHARACTERISTICS				
Dimensions (L×W×H) (In.)	FPLA/ UPLR	1	As Claimed/ measured (+3%/ - 0%)	
Weight (Lbs.)	FPLA/ UPLR	1	As Claimed/ measured (+3%/ - 0%)	
Other Features	FPLA/ UPLR	All	As Claimed/ measured (+3%/ - 0%)	

CONSTRUCTION/WORKMANSHIP				
Kohl's Workmanship Review	Visual Check /Actual Use	1	<ul style="list-style-type: none"> - All components shall be provided as claimed and shall not be deformed or fractured. - All hardware shall be provided - All welds shall be smoothly finished and free from pits and splatter - All components shall not contain any burrs or sharp edges (test by touch or sight) - Product shall not contain any loose components or unsecured fastening where rigidity is required 	

ELECTRICAL PROPERTIES				
Power supply cord	UL 962A Cls. 13.1	1	<ul style="list-style-type: none"> - Shall be of the grounding type - Shall employ one of the following flexible cord Types: SJ, SJE, SJO, SJT, SJTO, or equivalent. - Shall not be a detachable type - The length shall not exceed 25 ft (7.6 m) nor be less than 3 ft (0.9 m). - Shall not include a through-cord switch. 	
Minimum power cord size	UL 962A Table 13.1	1	Shall comply with Table 13.1	
Supplementary OCP	UL 962A Table 13.1	1	Shall comply with Table 13.1	

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Strain Relief	UL 962A Cls. 36.2	1	The power-supply cord is to withstand a direct pull of 35 lbf (158 N) applied to the cord for 1 min without sufficient movement of the power-supply conductors at the cut end to indicate transmission of stress to internal connections.	
Drop impact test	UL 962A Cls. 38.2	1	The FPDU is to be subjected to an impact that results from the sample being dropped three times (a series) through a distance of 3 ft (0.91 m) from the bottom of the FPDU to strike a hardwood surface in the positions that produce adverse results. In each drop, the sample is to strike in a position on the enclosure different from those of each of the other two drops in the series.	
Steel sphere impact test	UL 962A Cls. 38.3	1	The FPDU shall be subjected to a single impact of 5 ft lbf (6.8 J). Each impact shall be applied to an enclosure surface not impacted previously in the test sequence. Each impact is to be imparted by dropping a steel sphere 2 inches (50.8 mm) in diameter, and weighing 1.18 lb(0.535 kg), from a height that produces the specified impact.	
Dielectric Voltage-Withstand Test	UL 962A Cls. 30	1	A FPDU shall withstand a potential as follows between uninsulated live metal parts and the enclosure – a nonconductive enclosure is to be wrapped in conductive foil – and between live parts of opposite polarity. a) For FPDU's rated 125 V AC or less- 1250 V AC or 1768 V DC; b) For FPDU's rated 250 V AC or less- 1500 V AC or 2121 V DC,	
Leakage Current Test	UL 962A Cls. 31	1	The leakage current of a product rated for a nominal 250 V or less supply shall not be more than 0.5 mA.	
Grounding Continuity Test	UL 962A Cls. 32	1	A FPDU shall have a grounding-path resistance of 0.1 W or less.	
Enclosure accessibility test	UL 962A Cls. 44.1	1	A straight test rod having a maximum diameter of 1.6 mm (1/16 in) and of any convenient length is to be inserted into each opening in the enclosure and rotated in any possible direction. As a result of the test, the test probe shall not contact any uninsulated current-carrying parts.	
Accessibility of live parts test	UL 962A Cls. 44.2	1	The articulate probe, Figure 9.1, is to be inserted through any opening and rotated with movable sections straight and in any possible position resulting from bending one or more section in the same direction. The rigid probe, Figure 37.1, is to be applied with a maximum force of 30 N (6.75 lbf). As a result of the test, the probes shall not touch the current-carrying part or magnet wire.	

PERFORMANCE				
Functionality	Actual Use	1	Shall function as intended. Test in intended use mode.	

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Durability to Marking	Kohl's TM 50	1	Rub marking gently by hand with a damp cloth for the below defined seconds, followed by a cloth wetted slightly with petroleum spirit for another same timing. Marking shall remain legible.			
			Tier 1		Tier 2	Tier 3
			15 sec.		20 sec.	25 sec.
			Remark: Performs on product			
Cross Cut Adhesion	ASTM D3359 Method B	1	A lattice pattern with six cuts in each direction is made in the film to the substrate, pressure- sensitive tape is applied over the lattice and then removed. Client's Requirement: Tier 1: 3B; Tier 2: 4B; Tier 3: 5B			

ANALYTICAL				
* Lead In Scrapable Surface Coating	ASTM E1613/E1645	1	≤90ppm (0.009% by weight).	
* CA Prop 65	Refer to Protocol 1300	All	All shall be reviewed against the requirements of California Proposition 65 to determine if additional testing or labeling is required.	
Lead in PVC Power Cord (Test only if No Prop 65 Warning On Package)	EPA SW846 Method #3050	1 Sample	If ≥ 0.020%Pb by weight (200ppm), then the Cal Prop 65 warning should be present  WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov	

PRICING AND ADDITIONAL NOTE:

*Please refer to Kohl's preferred third party labs for individual pricing and sample size



KOHL'S TEST PROTOCOL

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Protocol Version	Description of Change	Revised by / Date	Approved by / Date
335-A	Initial Release	Nathan Yan Jun 02, 2015	Jeetendra Shelatkar June 6, 2015
335-B	Added 2 year validity to FCC report	Elizabeth Armstrong Aug 22, 2017	Elizabeth Armstrong Aug 22, 2017
335-C	Updated Prop 65 Warning Verbiage	Elizabeth Armstrong June 26, 2018	Elizabeth Armstrong June 26, 2018
335-D	Updated product marking, switch marking, location marking, FCC compliance, power supply cord, minimum power cord size, supplementary OCP, strain relief, drop impact test, steel sphere impact test, dielectric voltage withstand test, leakage current test, ground continuity test, enclosure accessibility test, accessibility of live parts test, strain relief, added DOE requirement.	Charlene Swanson November 2020	Charlene Swanson November 2020