



CENTRALBIDDING
FROM CENTRAL AUCTION HOUSE

**5000130370- PURCHASE OF DIMMER MODULES FOR THE JEFFERSON
PARISH PERFORMING ARTS CENTER**
Jefferson Parish Government

Project documents obtained from www.CentralBidding.com
17-Mar-2020 04:39:19 AM



Bid Number 50-130370

**Purchase of Dimmer Modules for the Jefferson Parish
Performing Arts Center**

March 19, 2020 at 11:00 am

ATTENTION VENDORS!!!

Please review all pages and respond accordingly, complying with all provisions in the technical specifications and Jefferson Parish Instructions for Bidders and General Terms and Conditions. All bids must be received in the Purchasing Department by the bid due date and time.

**Jefferson Parish Purchasing Department
200 Derbigny Street
General Government Building, Suite 4400
Gretna, LA 70053**

**Buyer Name: Rae Lynn Hartman
Buyer Email: rscott@jeffparish.net
Buyer Phone: 504-364-2688**

INVITATION TO BID
THIS IS NOT AN ORDER

Page: 1

DATE: 3/13/2020

BID NO.: 50-00130370

JEFFERSON PARISH

PURCHASING DEPARTMENT
P.O. BOX 9
GRETNA, LA. 70054-0009
504-364-2678

HOLZBERG COMMUNICATIONS, INC
P.O. BOX 322
TOTOWA, NJ 07511
800-254-1336

VENDOR: 27118 BLANK BID COPY VENDOR

BUYER: RSCOTT@jeffparish.net

Bids will be received until 11:00 AM, 3/19/2020 via online at www.jeffparishbids.net or by hand delivery, USPS mail or other courier service to Purchasing Department, 200 Derbigny Street (General Government Building), Suite 4400, Gretna, LA 70053. For convenience, bidders may also submit bids in the East Bank Purchasing Department, Suite 404, Jefferson Parish Joseph S. Yenni Building, 1221 Elmwood Park Blvd., Jefferson LA 70123. However, if submitting bids on the day of bid opening, bidders must submit at the West Bank location only.

All bids submitted are subject to these instructions and general conditions and any special conditions and specifications contained herein, all of which are made part of this bid proposal reference. By submitting a bid, vendor agrees to comply with all provisions of Louisiana Law, as well be in compliance with the Jefferson Parish Code of Ordinances, Louisiana Code of Ethics, applicable Jefferson Parish ethical standards and Jefferson Parish Resolution No. 113646 and/or Resolution No. 113647. A copy of these resolutions may be obtained from the Office of the Parish Clerk, Suite 6700, Jefferson Parish General Government Building, 200 Derbigny Street, Gretna, LA 70053. You may also obtain a copy by visiting the Purchasing Department webpage at purchasing.jeffparish.net and clicking on On-line forms.

All vendors submitting bids should register as a Jefferson Parish vendor if not already yet registered. Registration forms may be downloaded from <http://purchasing.jeffparish.net> and by clicking on Vendor Information. Current W-9 forms with respective Tax Identification numbers and vendor applications may be submitted at any time; however, if your company is not registered and/or a current W-9 form is not on file, vendor registration is mandatory. Vendors may experience a delay in payment if your company is not a registered vendor with Jefferson Parish.

As per LSA-RS 47:301 et seq., all governmental bodies are excluded from payment of sales taxes to any Louisiana taxing body. Quotations shall be based on F.O.B. Delivered, anywhere within the Parish as designated by the Purchasing Department. JEFFERSON PARISH WILL ACCEPT ONE BID ONLY FROM EACH VENDOR. Items bid must meet specifications. JEFFERSON PARISH will accept one price for each item unless otherwise indicated. Two or more prices for one item will result in bid rejection. Bidders are required to complete, sign and return the bid form and/or complete and return the associated line item pricing forms as indicated. The price quoted for work shall be stated in figures. In the event there is a difference in unit prices and totals, the unit prices shall prevail.

JEFFERSON PARISH reserves the right to award contracts or place orders on a lump sum or individual item basis, or such combination, as shall in its judgment be in the best interest of JEFFERSON PARISH. Every contract or order shall be awarded to the LOWEST RESPONSIVE and RESPONSIBLE BIDDER, taking into consideration the CONFORMITY WITH THE SPECIFICATIONS and the DELIVERY AND/OR COMPLETION DATE

PROTESTS: Only those vendors that submit bids in response to this solicitation may protest any element of the procurement, in writing to the Director of the Purchasing Department. Written protest must be received within 48 hours of the release of the bid tabulation by the Purchasing Department. After consultation, the Parish Attorney's Office will then respond to protests in writing. (For more information, please see Chapter 2, Article VII, Division 2, Sec. 2-914.1 of the Jefferson Parish Code of Ordinances.)

JEFFERSON PARISH reserves the right to cancel all or any part of an order if not shipped promptly. No charges will be allowed for parking or cartage unless specified in the quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel at any time and for any reason by issuing a THIRTY (30) day written notice to the contractor.

JEFFERSON PARISH requires all products to be new (current) and all work must be performed according to standard practices for the project. Unless otherwise specified, no aftermarket parts will be accepted. Unless otherwise specified, all workmanship and materials must have at least one (1) year guaranty, in writing, from the date of delivery and/or acceptance of the project. Any deviations or alteration from the specifications must be indicated on the bid form for each item and upon request, product data for same must be submitted by the time specified by the Purchasing Department.

If this bid requires a pre-bid conference (see Additional Requirements section), bidders are advised that such conference will be held to allow bidders the opportunity to identify any discrepancies in the bid specifications and seek further clarification regarding instructions. The Purchasing Department will issue a written response to bidders' questions in the form of an Addendum.

All formal Addenda require written acknowledgment on the bid form by the bidder. Failure to acknowledge an Addendum on the bid form shall cause the bid to be rejected; JEFFERSON PARISH reserves the right to award bid to next lowest responsive and responsible bidder in this event.

USE OF BRAND NAMES AND STOCK NUMBERS: Where brand names and stock numbers are specified, it is for the purpose of establishing certain minimum standards of quality. Bids may be submitted for products of equal quality, provided brand names and stock numbers are specified. Complete product data may be required prior to award.

Quantities listed are for bidding purposes only. Actual requirements may be more or less than quantities listed.

Bidders are not to exclude from participation in, deny the benefits of, or subject to discrimination under any program or activity, any person in the United States on the grounds of race, color, national origin, or sex; nor discriminate on the basis of age under the Age Discrimination Act of 1975, or with respect to an otherwise qualified handicapped individual as provided in Section 504 of the Rehabilitation Act of 1973, or on the basis of religion, except that any exemption from such prohibition against discrimination on the basis of religion as provided in the Civil Rights Act of 1964, or Title VI and VII of the Act of April 11, 1968, shall also apply. This assurance includes compliance with the administrative requirements of the Revenue Sharing final handicapped discrimination provisions contained in Section 51.55 (c), (d), (e), and (k)(5) of the Regulations. New construction or renovation projects must comply with Section 504 of the 1973 Rehabilitation Act, as amended, in accordance with the American National Standard Institute's specifications (ANSI A117.1-1991).

Jefferson Parish and its partners as the recipients of federal funds are fully committed to awarding a contract(s) to firm(s) that will provide high quality services and that are dedicated to diversity and to containing costs. Thus, Jefferson Parish strongly encourages the involvement of minority and/or woman-owned business enterprises (DBE's, including MBE's, WBE's and SBE's) to stimulate participation in procurement and assistance programs.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

IN ACCORDANCE WITH STATE REGULATIONS JEFFERSON PARISH OFFERS ELECTRONIC PROCUREMENT TO ALL VENDORS

This electronic procurement system allows vendors the convenience of reviewing and submitting bids online. This is a secure site and authorized personnel have limited read access only. Bidders are encouraged to submit electronically using this free service; while the website accepts various file types, one single PDF file containing all appropriate and required bid documents is preferred. Bidders submitting uploaded images of bid responses are solely responsible for clarity. If uploaded images/documents are not legible, then bidder's submission will be rejected. Please note all requirements contained in this bid package for electronic bid submission.

Please visit our E-Procurement Page at www.jeffparishbids.net to register and view Jefferson Parish solicitations. For more information, please visit the Purchasing Department page at <http://purchasing.jeffparish.net>.

ADDITIONAL REQUIREMENTS FOR THIS BID

PLEASE MATCH THE NUMBERS PRINTED IN THIS BOX WITH THE CORRESPONDING INSTRUCTIONS BELOW

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1. All bidders must attend the MANDATORY pre-bid conference and will be required to sign in and out as evidence of attendance. In accordance with LSA R.S. 38:2212(I), all prospective bidders shall be present at the beginning of the MANDATORY pre-bid conference and shall remain in attendance for the duration of the conference. Any prospective bidder who fails to attend the conference or remain for the duration shall be prohibited from submitting a bid for the project.
2. Attendance to this pre-bid conference is optional. However, failure to attend the pre-bid conference shall not relieve the bidder of responsibility for information discussed at the conference. Furthermore, failure to attend the pre-bid conference and inspection does not relieve the successful bidder from the necessity of furnishing materials or performing any work that may be required to complete the work in accordance with the specification with no additional cost to the owner.
3. Contractor must hold current applicable JEFFERSON PARISH licenses with the Department of Inspection and Code Enforcement. Contractor shall obtain any and all permits required by the JEFFERSON PARISH Department of Inspection and Code Enforcement. The contractor shall be responsible for the payment of these permits. All permits must be obtained prior to the start of the project. Contractor must also hold any and all applicable Federal and State licenses. Contractor shall be responsible for the payment of these permits and shall obtain them prior to the start of the project.
4. A LA State Contractor's License will be required in accordance with LSA R.S. 37-2150 et. seq. and such license number will be shown on the outside of the bid envelope. Failure to comply will cause the bid to be rejected. Additionally if submitting the bid electronically, then the license number must be entered in the appropriate field in the Electronic Procurement system. Failure to comply will cause the bid to be rejected.
5. It is the bidder's responsibility to visit the job site and evaluate the job before submitting a bid.
6. Job site must be clean and free of all litter and debris daily and upon completion of the contract. Passageways must be kept clean and free of material, equipment, and debris at all times. Flammable material must be removed from the job site daily because storage will not be permitted on the premises. Precautions must be exercised at all times to safeguard the welfare of JEFFERSON PARISH and the general public.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

7. **PUBLIC WORKS BIDS:** All awards for public works in excess of \$5,000.00 will be reduced to a formal contract which shall be recorded at the contractor's expense with the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. A price list of recordation costs may be obtained from the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. All awards in excess of \$25,000.00 will require both a performance and a payment bond. Unless otherwise stated in the bid specifications, the performance bond requirements shall be 100% of the contract price. Unless otherwise state in the bid specifications, the payment bond requirements shall be 100% of the contract price. Both bonds shall be supplied at the signing of the contract.
8. **NON-PUBLIC WORKS BIDS:** A performance bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The performance bond shall be supplied at the signing of the contract.
9. **NON-PUBLIC WORKS BIDS:** A payment bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The payment bond shall be supplied at the signing of the contract.
10. All bidders must comply with the requirements stated in the attached "Standard Insurance Requirements" sheet attached to this bid solicitation. Failure to comply with this instruction will result in bid rejection.
11. A bid bond will be required with bid submission in the amount of 5% of the total bid, unless otherwise stated in the bid specifications. Acceptable forms shall be limited to cashier's check, certified check, or surety bid bond. All sureties must be in original format (no copies). If submitting a bid online, vendors must submit an electronic bid bond through the respective online clearinghouse bond management system(s) as indicated in the electronic bid solicitation on Central Auction House. No scanned paper copies of any bid bond will be accepted as part of the electronic bid submission.
12. This is a requirements contract to be provided on an as needed basis. JEFFERSON PARISH makes no representations on warranties with regard to minimum guaranteed quantities unless otherwise stated in the bid specifications.
13. Freight charges should be included in total cost when quoting. If not quoted FOB DELIVERED, freight must be quoted as a separate item. Bid may be rejected if not quoted FOB DELIVERED or if freight charges are not indicated on bid form.
14. **PUBLIC WORKS BIDS - Completed, Signed and Properly Notarized Affidavits Required;** This applies to all solicitations for construction, alteration or demolition of public buildings or projects, in conformity with the provisions contained in LSA-RS 38:2212.9, LSA-RS 38:2212.10, LSA-RS 38:2224, and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Conviction Affidavit, Non-Collusion Affidavit, Campaign Contribution Affidavit, Debt Disclosures Affidavit and E-Verify Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
15. **NON PUBLIC WORK BIDS - Completed, Signed and Properly Notarized Affidavits Required** in conformity with the provisions contained in LSA – RS 38:2224 and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Collusion Affidavit, Debt Disclosures Affidavit and Campaign Contribution Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled NON PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
16. The ensuing contract for this bid solicitation may be eligible for FEMA reimbursement and/or Federal funding/reimbursement. As such, the referenced appendix will be applicable accordingly and shall be considered a part of the bid documents. All applicable certifications must be duly completed, signed and submitted with bid submission. Failure to submit applicable certifications with bid submission will result in bid rejection.

It shall be the duty of every parish officer, employee, department, agency, special district, board, and commission; and the duty of every contractor, subcontractor, and licensee of the parish, and the duty of every applicant for certification of eligibility for a parish contract or program, to cooperate with the Inspector General in any investigation, audit, inspection, performance review, or hearing pursuant to JPCO 2-155.10(19). By signing this document, every corporation, partnership, or person contracting with PARISH, whether by cooperative endeavor, intergovernmental agreement, bid, proposal, application or solicitation for a parish contract, and every application for certification of eligibility for a parish contract or program, attests that it understands and will abide by all provisions of JPCO 2-155.10.

DATE: 3/13/2020

INVITATION TO BID
THIS IS NOT AN ORDER

Page: 4

BID NO.: 50-00130370

JEFFERSON PARISH

HOLZBERG COMMUNICATIONS, INC
P.O. BOX 322
TOTOWA, NJ 07511
1-800-654-9550

PURCHASING DEPARTMENT
P.O. BOX 9
GRETNA, LA. 70054-0009
504-364-2678

VENDOR: 27118 BLANK BID COPY VENDOR

BUYER: RSCOTT

As per LSA-RS 47:301 et seq., all governmental bodies are excluded from payment of sales taxes to any Louisiana taxing body. Quotations shall be based on F.O.B. Agency warehouse or jobsite, anywhere within the Parish as designated by the Purchasing Department.

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JEFFERSON PARISH is expecting all products to be new and all work to be done in workman-like manner, according to standard practices. Any deviations or alteration from the specifications must be indicated on the bid form for each item and upon request, product data for same must be submitted by the time specified by the Purchasing Department.

DELIVERY: FOB JEFFERSON PARISH	
INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES	<u>15 Days ARO</u>
INDICATE STARTING TIME (IN DAYS) FOR CONSTRUCTION WORK	_____
INDICATE COMPLETION TIME (IN DAYS) FOR CONSTRUCTION WORK	_____

In the event that addenda are issued with this bid, bidders MUST acknowledge all addenda on the bid form. Bidder must acknowledge receipt of an addendum on the bid form as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

Acknowledge Receipt of Addenda: NUMBER: _____
 NUMBER: _____
 NUMBER: _____
 NUMBER: _____

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable) _____

*** ALL BIDDERS MUST COMPLETE SECTION BELOW ***	
FIRM NAME: <u>Holzberg Communications, Inc.</u>	
SIGNATURE: <u>[Signature]</u> <small>(Must be signed here)</small>	TITLE: <u>President</u>
PRINT OR TYPE NAME: <u>Andy Holzberg</u>	
ADDRESS: <u>PO Box 322</u>	
CITY, STATE: <u>Totowa, NJ</u>	ZIP: <u>07511</u>
TELEPHONE: <u>800 654-9550</u>	FAX: <u>973 389-9696</u>
EMAIL ADDRESS: <u>holzberg@juno.com</u>	

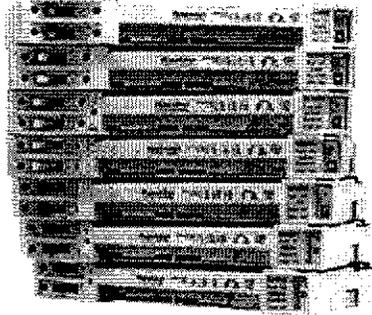
TOTAL PRICE OF ALL BID ITEMS: \$ 6104.00

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00130370

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
1	8.00	EA	Purchase of Dimmer Modules for the Jefferson Parish Performing Arts Center 0010 - LED 10 DUAL 1.2KW 120V REVERSE PHASE MOD	763.00	6,104.00
2	1.00	EA	0020 - DELIVERY CHARGE	Ø	Ø
NEEDED TO CORRECT THE BLINKING LED LIGHTING IN THE JEFFERSON THEATRE AT THE JEFFERSON PERFORMING ARTS CENTER. REF NO. 3422 20 ORDERED BY/FOR: L.MICKENS QUOTE & SPECS ATTACHED DELIVER TO: J.P. GENERAL SERVICES ATTN: LANGDON MICKENS CENTRAL PLANT 960 1ST STREET GRETNA, LA 70053					
HOLZBERG COMMUNICATIONS, INC P.O. BOX 322 TOTOWA, NJ 07511 1-800-854-8550					



GENERAL INFORMATION

The PhaseAdept Dimmer Module is a dual-density dimmer module for use in any ETC power enclosure without concern for the age of the equipment. The PhaseAdept Module provides forward- or reverse-phase angle dimming specifically designed for compatibility with LED fixtures and replacement lamps. The design features high-density modular assembly, fully-magnetic and fully-rated circuit breakers. Phase angle and min scale control are available electronically when used with Sensor 3 and DRd enclosures (CEM3, E-ACP, or P-ACP controllers) and manually if used with Sensor, Sensor+, Unison DR, and Unison DRd with SmartLink (MPE, CEM, CEM+, S-ACP, CMd, or CMEd, control processor.)

APPLICATIONS

- LED replacement lamps
- Electronic low-voltage transformers
- Electronic LED power supplies requiring forward or reverse phase control

FEATURES

- High-performance dimming of LED loads compatible with any new or installed ETC Sensor or Unison rack
- Two dimmers per module
- High-density modular assembly
- Fully-rated circuit breakers
- Min scale controls
- Forward- or reverse-phase dimming

REGULATORY AND COMPLIANCE

- UL and cUL LISTED
- CE compliant

GENERAL INFORMATION

Module Variants

MODEL	PART NUMBER	INPUT VOLTAGE	LISTING
LED10	7050A1296	120V	cULus
ELED6	7070A1426	220V-240V	CE
ELED6N	7070A1428	220V-240V	CE
ELED6R	7070A1427	220V-240V	CE
ALED5	7183A1210	277V	cULus
HLED6D2	7070A1429	240V Delta	-
LED10NI	7050A1297	100V	UL
LED10RU	7050A1298	100V	UL

Compatible Power Enclosures

MODEL	PROCESSOR	INPUT VOLTAGE	LISTING
SR3(AF)	CEM3	120V	cULus
ESR3(AF)	CEM3	230V	CE
HSR3(AF)	CEM3	240V	UL
SR3(AF)	CEM3	100V	UL
SP3(AF)	CEM3	120V	cULus
SR+(AF)	CEM+	120V	cULus
ESR+(AF)	CEM+	230V	CE
HSR+(AF)	CEM+	240V	UL
HSRD2+(AF)	CEM+	240V Delta	-
SR+(AF)	CEM+	100V	UL
SP+(AF)	CEM+	120V	cULus
SR(AF)	CEM, MPE	120V	cULus
ESR(AF)	CEM	230V	CE
HSR(AF)	HCEM	240V	UL
SR(AF)	CEM, MPE	100V	UL
SP(AF)	CEM, MPE	120V	UL
DRd-120	DRd Dimming Engine	120V, 230V	cULus, CE
DRd-277	DRd Dimming Engine	277V	cULus
DR-120	CMEd, CMd	120V, 230V	cULus, CE
DR-277	CMEd, CMd	277V	cULus

Note: PhaseAdept modules do not offer Advanced Features (AF), but are compatible for use with Sensor AF enclosures.



SPECIFICATIONS

FUNCTIONAL

PhaseAdept modules can be set to two different control modes: Rack mode and Local mode. The control mode is set with a dipswitch that is not accessible when the module is mounted in a dimmer rack (Image 1). Physical covers are in place to help prevent unintended use of the manual controls used in Local Mode.

Rack Mode (default) - When the dipswitch is set towards the rear/backplane side of the module, the module is controlled by the dimmer rack control processor. This mode is supported by CEM3, CEM+, and Unison DRd racks. Please ensure that your control processor software is updated to the most recent version before installing PhaseAdept modules.

Local Mode (retrofit) - When the dipswitch is set towards the front label side of the module, the module is controlled by an internal dimming engine and manual controls for phase selection (Image 2) and min scale (Image 3). This mode allows PhaseAdept modules to run in any ETC dimmer rack in the field.

- **Phase Selection** - two dipswitches allow for each output circuit to be either forward or reverse (default) phase. The top and bottom circuit breakers are tied to the left and right dipswitches, respectively. Setting the switch upwards will set the circuit to forward-phase dimming, setting the switch downwards will set the circuit to reverse-phase.
- **Min Scale** - two dials allow for each output to be set to a different min scale value to provide a dimming curve specific to the requirements of the dimmed load. A legend for using the min scale controls is included on the module label (Image 3)
- **Micro USB** - there is a micro USB connection (Image 4) next to the min scale controls which supports module firmware updates. Modules do not need to be installed in a dimmer rack in order to be updated.

IMAGE 1



IMAGE 2



SPECIFICATIONS

GENERAL

- Dual-density, plug in modules, for use in any Sensor or Unison power enclosure
- Provides forward- or reverse-phase angle dimming for LEDs and electronic low-voltage transformers
- UL and cUL Listed for continuous duty at 100% of rated load

PHYSICAL

- Modular plug-in assemblies
- Cast aluminum chassis, finished with textured epoxy paint

CIRCUIT BREAKERS

- Fully magnetic to eliminate nuisance tripping
- 10x inrush current rating
- 125%, 10-120 seconds, must-trip rating
- Rated for 100% switching duty applications

ELECTRICAL

- Modules available for dimmer racks with the following mains feeds:
 - 100V - dual 10A
 - 120V - dual 10A
 - 230V - dual 6A
 - 240V - dual 6A
 - 240V Delta - dual, 6A total load
 - 277V - dual 5A
- 1W minimum load
- 100,000A Short Circuit Current Rating (SCCR)
- Modules withstand hot-patching of cold loads up to full rating
- Not suitable for use with magnetic loads

POWER DEVICE

- Sealed, patented assembly
- Per-circuit LED indicators
- Integral bonded heatsink
- Integral temperature sensor

FILTERING

- High quality toroidal filters (see module chart for rise times)

LOW VOLTAGE DIMMING

- PhaseAdept modules provide forward- or reverse-phase dimming and are compatible with any ETC dimmer rack
- Phase dimming performance for LED lamps varies considerably depending on the manufacturer and model.
- Visit <http://www.etcconnect.com/compatibility/> for details on a variety of specific lamps and information on how to send samples to ETC for testing.

IMAGE 3

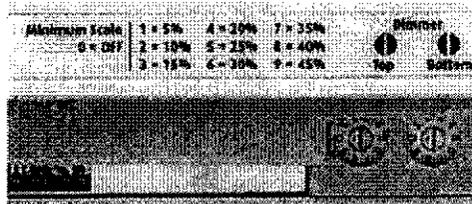


IMAGE 4

