

14 Woodworkers Way Seabrook, NH 03874 Tel: (603) 474-2626 Fax: (603) 474-1881

## **VOLUME 1 Technical Proposal LCLS II Magnet Controls Instrument Racks** RFP #275153

## P/N A843137F-V4-2 TECHNICAL DESCRIPTION **Revision A. 7/18/17**

Singlewide 48U 19" Rackmount XL Cabinet Assembly, SLAC (Version 4)

- -Extra Wide and Deep Sealed Cabinet
- -Includes Large SLAC Heat Exchanger
- -Steel Lexan Full Height, Partial Width Front Door
- -Solid Steel Partial Height, Partial Width Rear Door (centered in rack)
- -5U Blank Panel at top & bottom rear
- -Cable Entry Door at top RH side
- -External Duplex Convenience Outlets at lower RH front & lower RH rear
- -Internal Duplex Outlets at lower & upper rear

Overall Height: 93.34 Overall Width: 36.00

Overall Depth: 40.00 (frame)

- -(1) 843137 RUGGED Frame Assembly including:
  - -Solid FORKLIFT Base, front access, w/front & rear dress covers. 1" dia Boltdown Holes at the corners of the base, externally accessible front & rear Hat Sections provided for HEX support
  - -GROUND HOLE, 3/8" DIA, DRILLED THRU BOTH WALLS OF EXTRUSION ON TOP OF FRAME, RH REAR CORNER AND MASKED ON TOP SURFACE FOR GROUND HARDWARE. INSERTS INSTALLED TOP OF FRAME FOR LIFTING EYES (3/8-16 THD)
  - -(8) Welded Front to Rear Stiffeners NOTE SPECIAL STIFFENER LOCATIONS
  - -(20) Welded Joint Supports at front, rear, side and top corners
  - -(2) each of 48U "L" Shaped 10-32 Tapped Vertical .84 Rails Rails are Clear Zinc Plated (mounted on LH side)
  - -(2) each of 48U "L" Shaped 10-32 Tapped Vertical 13.46 Rails

Rails are Clear Zinc Plated W/ACCESS CUTOUTS (mounted on RH side)

- -Front Rails recessed 1" from front (3" from inside of front door)
- -Rear Rails spaced 29 1/4" from front rails
- -Rackmount area justified to the LH side, leaving approx 10" cable management space on right
- -Frame is masked on both sides at mounting rail locations; top, middle & bottom
- -Base is Galvanized material, masked at ground studs
- -(1) U-LABEL-4B Mounted at front and rear, on sides of bezels, not on rails
- -(1) SP8437-GRD Externally Removable Side Panels, (set of 2)
  - -Material is Galvaneal, masked at ground studs



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- -(1) SLD8420LH-G DEEP Formed Steel Lexan Front Door,
  - LH hinged, with (2) locking swing handles. Ground wire to frame. Key #333
    - DOOR PROTRUDES FROM FRONT OF FRAME BY aprox 1 1/8"
    - USES UL 'VO' STYLE SMOKED LEXAN, bolted inside of door
- -(1) SD6620RH-GRD 38U Solid Short Rear Door, RH Hinged, with (2) locking swing handles. Door centered. Key #333. Ground Stud at lower hinge side corner
- -(2) FBP20-5U-BLANK 5U Formed Steel Blank Panel above & below Rear Door. Ground Stud
- -(1) FT3137-G-ISC1 Solid one-piece Top Panel, externally removable
  - -(1) Approx 4" X 25" Cable Access Door with Foam on LH Side over cable area
  - -Material is Galvaneal, masked at ground stud
  - -Includes Ground Stud; (1) in RH rear corner, masked; Includes Ground Wire from Top Panel to Frame
  - -Integrated J-Box with Cover Plate for Duplex Circuit Connection
- -(1) J-BOXKIT-4-SLAC1 Integrated Convenience Outlet Circuit with (4) 2X4 J-BOXES, Duplex Outlets and Cover Plates, wired on one circuit using 12 AWG wire in 1/2" Sealtite Flex Conduit
  - (1) at lower RH front (1) lower RH rear (2) internally rear top & bottom
- -(2) PSM6220-20-ISC3 Power Strip recessed ~6-8" from rear, facing rear Each includes 10ft Olflex 190 12/3 Cord with L5-20P plug. Exits thru top Cable Door
- -(1) HEX Rackmounted Heat Exchanger, with front air deflector. Manufactured & Assembled per SLAC SA-376-553-70. Coolant connections are made on site
- (1) EB-4 Lifting Eyebolts with Hexnuts (Set of 4)
- -(1) HWSPS1032-40 Starter Point Screw Kit (Pack of 40)
- -(1) BB84-SLAC1 48U Vertical Copper Busbar with 10-32 tapped holes
- -(1) FOAMKIT-2 Foam Sealing Kit on external doors and panels
- -All Doors and appropriate removable Panels include ground wires to frame
- -Color: Powdercoat Blue BL210



