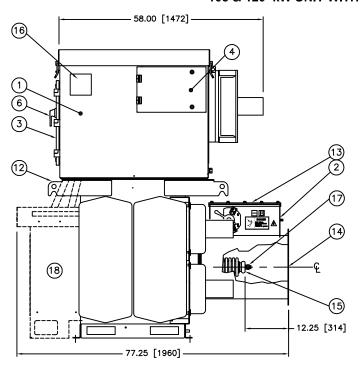
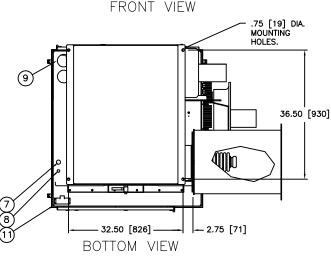
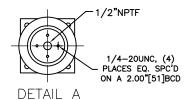
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HF ESP, POWERPLUS SERIES 105 & 120 kW UNIT WITH GROUND SWITCH





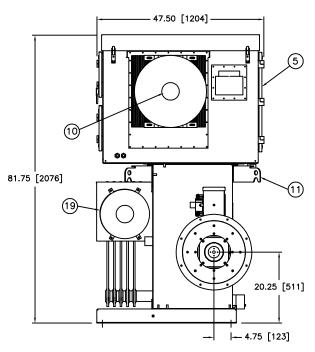


HV OUTPUT CORONA RING DETAIL NOTES:

- POWERPLUS MUST BE MOUNTED ON A LEVEL SURFACE OR
- SHIMED TO WITHIN 1/8"[3.2] RISE PER 12"[305] RUN.
 COLD ROOF MAY NEED TO BE REINFORCED TO ACCEPT THE WEIGHT
 OF THE POWER PLUS UNIT.
- MAXIMUM ALLOWABLE DUCT INTERNAL TEMPERATURE: 122°F (50°C). MAXIMUM ALLOWABLE DUCT INTERNAL PRESSURE: 1 PSI (2.04"Hg). THE INSTALLER MUST USE AN ENTRANCE BUSHING IN ROOF TO MEET THESE SPECIFICATIONS.
- POWERPLUS MUST BE GROUNDED TO THE COLD ROOF BY THE END USER. REFER TO DWGB126972 FOR GROUNDING DETAILS.

APPROX WEIGHT WITH GND SWITCH: 2300lbs, 1178kg APPROX WEIGHT WITH GND SWITCH AND AUTO TRANS.: 2800lbs, 1296Kg. DIELECTRIC FLUID VOLUME: 80gal, 303L FINISH: ENAMEL, ASA 61, APPROX. RAL 7042

TANK AND CONTROL ENCLOSURE ARE SEALED UNITS RATED NEMA 4/IP56 ALL DIMENSIONS IN INCHES FOLLOWED BY [mm].



SIDE VIEW

- (1) POWERPLUS UNIT.
- (2) GROUND SWITCH
- (3) ACCESS DOOR TO CIRCUIT BREAKER TERMINALS. ALLOW 19" [483] OF CLEARANCE FROM THIS FACE FOR DOOR SWING.
- ACCESS DOOR TO 3 PHASE RECTIFIER ASSEMBLY. ALLOW 19" [483] OF CLEARANCE FROM THIS FACE FOR DOOR SWING.
- ACCESS DOOR TO HV TANK AND CONTROL SECTION. ALLOW 33"[838] OF CLEARANCE FROM THIS FACE FOR DOOR SWING.
- INPUT CIRCUIT BREAKER SWITCH HANDLE WITH INTERLOCK PROVISION INSIDE. FOR ACCEPTABLE INTERLOCK SEE DWG A105811.
- 1"[25.4] DIA CONDUIT HOLE FOR 120V CONTROL WIRING.
- (8) 1/2"[12.7] DIA CONDUIT HOLE FOR LOW VOLTAGE COMMUNICATION & OPTIONAL TRANSDUCER CONDUIT.
- 2"[51] DIA CONDUIT HOLE FOR 3 PHASE POWER AND GROUND.
- (10) COOLING FAN FOR IGBT HEATSINK ASSEMBLY.
- EZ SCOPE PORT WITH RJ45 SOCKET FOR KEYPAD DISPLAY CONNECTION AND BNC CONNECTORS FOR MAKING EXTERNAL kV AND MA MEASUREMENTS.
- (12) LIFTING HOOKS (4 PLACES).
- (3) H.V SWITCH MECHANISM WITH VIEWING WINDOW AND INTERLOCK PROVISIONS. FOR INTERLOCK AND BOLT EXTENSION INFO SEE DWG A105811.
- SIDE EXIT 18" DUCT MOUNTING PROVISION. INCLUDES GASKETS AND 3/8-16 HARDWARE 8 PLACES ON A 20"[508] DIA B.C. WITH 18"[457] DIA DUCT OPENING.
- HIGH VOLTAGE SEMI-OUTDOOR BUSHING, SEE DETAIL A FOR DETAIL.
- (16) RATINGS NAMEPLATE, ALUMINUM PHOTO ETCHED.
- OPTIONAL METRIC ADAPTER FOR H.V. BUSHING CONNECTION. CONVERTS 1/2 NPT TO M20-1.5. SEE DWG A117570
- OPTIONAL AUTO TRANSFORMER MOUNTED IN A NEMA 3R JUNCTION BOX. NOT SHOWN IN BOTTOM VIEW.
- (19) RADIATOR COOLING FAN.

DATA SHEET: ESP105-120RD-D REVISION DATE: 06/05/09 APPROVED BY: HH