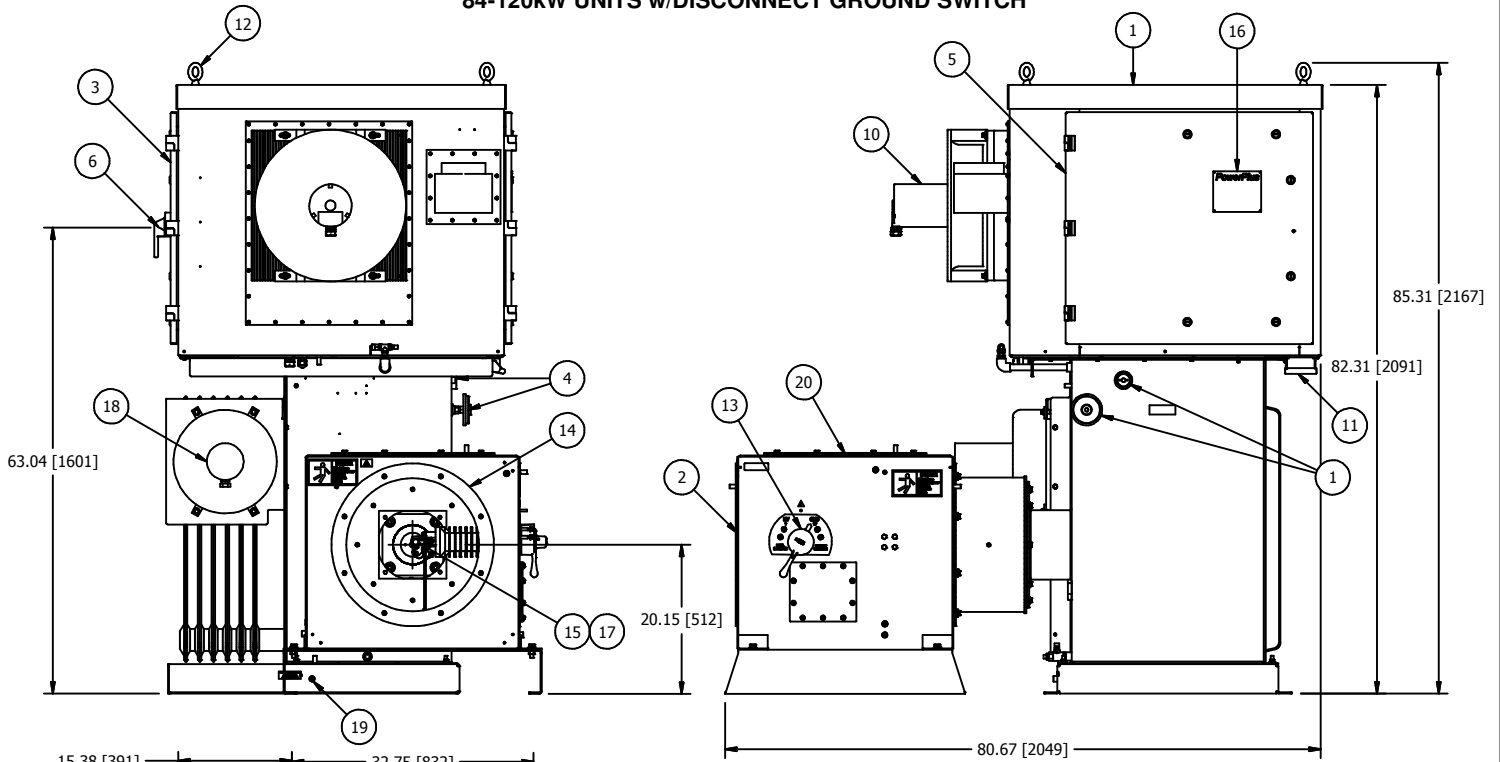




## HF ESP, POWERPLUS SERIES 84-120kW UNITS w/DISCONNECT GROUND SWITCH



### BOTTOM VIEW

FOR REFERENCE ONLY. POWERPLUS AND SWITCH ASSEMBLY MUST BE FIELD FITTED TO THE H.V. DUCT WORK PRIOR TO SECURING TO ROOF.

#### NOTES:

- POWERPLUS MUST BE MOUNTED ON LEVEL SURFACE OR SHIMMED TO WITHIN 1/8" [3.2] RISE PER 12" [305] RUN.
- COLD ROOF MAY NEED TO BE REINFORCED TO ACCEPT THE WEIGHT OF THE POWERPLUS 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 INTO ROOF TO MEET THESE SPECIFICATIONS.
- POWERPLUS MUST BE GROUNDED TO THE COLD ROOF BY THE END USER. REFER TO DWG B126972 FOR GROUNDING DETAILS.
- ALLOW 120" MINIMUM CLEARANCE ABOVE THE FLOOR TO LIFT AND REMOVE THE T/R RIG ASSEMBLY FROM THE OIL TANK. CLEARANCE DOES NOT INCLUDE RIGGING HEIGHT.

APPROX. WEIGHT WITH DISCONNECT GROUND SWITCH: 2600bs (1180kg).  
DIELECTRIC FLUID VOLUME: 100gal (379L).  
FINISH: ENAMEL, ASA 61, APPROX. RAL 7042.  
TANK AND CONTROL ENCLOSURE RATED NEMA 4/IP56.

- POWERPLUS UNIT.
- DISCONNECT GROUND SWITCH (SHIPPED SEPARATELY).
- ACCESS DOOR TO CIRCUIT BREAKER TERMINALS, FUSES AND 3 PHASE RECTIFIERS. ALLOW 37" [940] OF CLEARANCE FROM THIS FACE FOR DOOR SWING.
- LIQUID LEVEL GAUGE AND TEMPERATURE GAUGE FOR OIL TANK.
- ACCESS DOOR TO H.V. TANK AND CONTROL SECTION. ALLOW 37" [940] OF CLEARANCE FROM THIS FACE FOR DOOR SWING.
- INPUT CIRCUIT BREAKER SWITCH HANDLE WITH INTERLOCK PROVISION INSIDE. FOR ACCEPTABLE INTERLOCKS SEE DWG C140616.
- 1" [25.4] DIA. CONDUIT HOLE FOR 120V CONTROL WIRING.
- 1/2" [12.7] DIA. CONDUIT HOLE FOR LOW VOLTAGE COMMUNICATION AND OPTIONAL TRANSDUCER CONDUIT.
- GLAND PLATE FOR 3 PHASE POWER AND GROUND.
- 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.
- LIFTING EYES (4 PLACES).
- H.V. SWITCH MECHANISM WITH VIEWING WINDOW AND INTERLOCK PROVISIONS. FOR INTERLOCK AND BOLT EXTENSION INFORMATION SEE DWG A105812.
- 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.
- 1/2" NPTF OUTPUT CONNECTION.
- RATINGS NAMEPLATE, ALUMINUM PHOTO ETCHED.
- OPTIONAL METRIC ADAPTER FOR H.V. BUSHING CONNECTION. CONVERTS 1/2" NPT TO M20-1.5. SEE DWG A117570.
- RADIATOR COOLING FAN.
- EQUIPMENT SAFETY GROUND TERMINATION, 3/8-16 GROUND BOSS.
- TOP EXIT 22" [559] ACCESS COVER (NOT SHOWN). INCLUDES GASKETS AND 3/8-16 HARDWARE (8) PLACES ON A 20" [508] DIA. B.C. WITH 18" [457] DIA. DUCT OPENING.

ALL DIMENSIONS IN INCHES [mm]

DATA SHEET: ESP84-120DS  
REVISION DATE: 10/1/15  
APPROVED BY: HH