

ELECTRICAL GENERATOR SQUARE FOOT LOAD SUMMARY



Project Name: VAMC San Juan

Project Number: 003630.19

Gross Building Area: 52,000

REVISED: 02/14

| BUILDING LOAD TYPE | AREA (SQ.FT.) | UNIT LOAD (VA / SQ.FT.) | LOAD (kVA) | CONNECTED LOAD (kVA) | DESIGN FACTOR (%) | DESIGN LOAD (kVA) | DESIGN UNIT LOAD (VA / SQ.FT.) |
|---|---------------|-------------------------|------------|----------------------|-------------------|-------------------|--------------------------------|
| LIGHTING (Dormatory) | 12,500 | 1.0 | | 13 | 100% | 13 | 1.0 |
| RECEPTACLES (Dormatory) | 12,500 | 2.0 | | 25 | NOTE 1 | 18 | 1.4 |
| HVAC VENTILATION (Dormatory) | 12,500 | 3.0 | | 38 | 100% | 38 | 3.0 |
| HVAC AC (Dormatory) | 12,500 | 4.0 | | 50 | 100% | 50 | 4.0 |
| LIGHTING (Medical Office Building) | 33,750 | 0.4 | | 14 | 100% | 14 | 0.4 |
| RECEPTACLES (Medical Office Building) | 33,750 | 0.5 | | 17 | NOTE 1 | 13 | 0.4 |
| HVAC VENTILATION (Medical Office Building) | 33,750 | 0.0 | | 0 | 100% | 0 | 0.0 |
| HVAC AC (Medical Office Building) | 33,750 | 0.0 | | 0 | 100% | 0 | 0.0 |
| MISC. EQUIP. PROCESS LOAD (Medical Office Building) | 33,750 | 0.2 | | 7 | 75% | 5 | 0.2 |
| LIGHTING (Kitchen/Dining) | 5,750 | 1.0 | | 6 | 100% | 6 | 1.0 |
| RECEPTACLES (Kitchen/Dining) | 5,750 | 2.0 | | 12 | NOTE 1 | 11 | 1.9 |
| HVAC VENTILATION (Kitchen/Dining) | 5,750 | 3.0 | | 17 | 100% | 17 | 3.0 |
| HVAC AC (Kitchen/Dining) | 5,750 | 4.0 | | 23 | 100% | 23 | 4.0 |
| MISC. EQUIP. PROCESS LOAD (Kitchen/Dining) | - | - | | 275 | 100% | 275 | - |
| LIGHTING (Covered Walkway/Patio) | 6,000 | 0.3 | | 2 | 100% | 2 | 0.3 |
| LIGHTING (Site Lighting) | - | - | | 3 | 100% | 3 | - |
| OUTBUILDINGS(Guard House(s), Green House) | - | - | | 20 | 100% | 20 | |
| FIRE PUMP (50Hp) | - | - | | 50 | 100% | 50 | - |
| SUB TOTAL | | | | 569 | | 556 | 10.7 |
| FUTURE GROWTH (%) | | | | | | 10% | 10% |
| TOTAL RUNNING KVA LOAD (NOTE 2) | | | | | | 612 | 11.8 |

Notes:

1. 100% design load for first 10KVA and 50% design load for remainder over 10KVA per NEC 220.44.
2. Total running load is the steady-state emergency load seen by the generator after initial inrush and motor starting.

RECOMMENDED GENERATOR SIZE

600/750 KW/KVA