NOTES:
1. INSTALLATION MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL ELECTRICAL REGULATIONS.
2. PLEASE REFER TO PRODUCT MANUALS FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. DRAWING DEPICTS POWER SYSTEM CONNECTIONS AND IS NOT REPRESENTATIVE OF PHYSICAL LAYOUT, PLEASE REFER TO MECHANICAL DRAWINGS FOR PHYSICAL LAYOUT.

4. 3x400/230V TN~S (PROVIDED BY OTHERS). FOR OTHER (TN~C, TN~C~S, TT, IT) EXISTING PRINCIPLES, PLEASE CONTACT Schneider Electric.

RECOMMENDED UPS STREAM PROTECTION IS A MINIMUM RATING TO SUPPORT MAXIMUM CURRENT, WITHOUT SELECTIVITY. IF SELECTIVITY IS REQUIRED, PLEASE CONTACT Schneider Electric.

5. ALL AC POWER CABLES IS 1, L1, L2, L3, N, PE.

6. APPLICABLE ONLY FOR SINGLE MAINS INPUT, CABLES PROVIDED BY OTHERS.

DUAL MAINS CONFIGURATION IS A DEFAULT.

7. DC CABLE TO BE 600V RATED, 2 WIRE + PE, EACH CIRCUIT TO BE RUN IN SEPARATE CONDUITS, POSITIVE, NEGATIVE + PE

8. UPS INPUT AND OUTPUT CABLES SHOULD BE SEGREGATED.

9. POWER WIRING AND CONTROL WIRING SHOULD BE SEGREGATED.

10. FOR SYSTEM INPUT OVER CURRENT PROTECTION REFER TO SHEET-3

11. REFER TABLE-1 FOR NUMBER OF BATTERY CABINETS FOR VARIOUS RATING.

12. FOR SKU NUMBERS/RATINGS REFER TO SHEET-3

13. BATTERY RUN TIME IS THEORETICAL AND CALCULATED BASED ON DATA PROVIDED BY BATTERY MANUFACTURER ASSUMING OPTIMUM ENVIRONMENT AND LOAD CONDITIONS.

14. RATING OF TRANSFORMER IS

- 40kVA FOR UPS RATINGS 30/40kVA
- 60kVA FOR UPS RATING 60kVA
- 120kVA FOR UPS RATINGS 80/100/120kVA

TABLE-1

<table>
<thead>
<tr>
<th>Runtime</th>
<th>(QTY) AND WIDTH OF BATTERY CABINET FOR VARIOUS UPS RATINGS</th>
<th>30kVA</th>
<th>40kVA</th>
<th>60kVA</th>
<th>80kVA</th>
<th>100kVA</th>
<th>120kVA</th>
</tr>
</thead>
<tbody>
<tr>
<td>5min</td>
<td></td>
<td>-</td>
<td>-</td>
<td>(1)/1000</td>
<td>(1)/1000</td>
<td>(1)/1000</td>
<td>(1)/1000</td>
</tr>
<tr>
<td>10min</td>
<td></td>
<td>-</td>
<td>(1)/1000</td>
<td>(1)/1000</td>
<td>(1)/1000</td>
<td>(1)/1000</td>
<td>(2)/1000</td>
</tr>
<tr>
<td>15min</td>
<td></td>
<td>-</td>
<td>(1)/1000</td>
<td>(1)/1000</td>
<td>(1)/1000</td>
<td>(1)/1000</td>
<td>(2)/1000</td>
</tr>
<tr>
<td>30min</td>
<td></td>
<td>(1)/1000</td>
<td>(1)/1000</td>
<td>(2)/700</td>
<td>(1)/1000</td>
<td>(1)/1000</td>
<td>(2)/1000</td>
</tr>
</tbody>
</table>

RATED SHORT CIRCUIT CURRENT - UPS

W/OUTPUT FUSES W/ INPUT BREAKER

50A SYMMETRICAL 30A SYMMETRICAL

LEGEND:

— — — — — — AC CABLE - PROVIDED BY OTHERS.
DC CABLE - PROVIDED BY OTHERS.

DEVICE RATING FOR 150kVA- EXTERNAL BYPASS CABINET

Q4S,Q3BP,QSN 250A 600V AC 4 POLE

SCHNEIDER ELECTRIC NS250 INTERPACT 1 NO AUX CONTACT

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Galaxy 5500® 2Module (N+1) UPS Site Planning Data

Battery voltage when charged at 20 deg C:
Minimum Number of Cells=216, Ubat=486V (Vented lead acid)  
Input Voltage : 400V AC, Output Voltage : 400V AC

<table>
<thead>
<tr>
<th>UPS Rating</th>
<th>SKU Number</th>
<th>Nominal Current(A)</th>
<th>Maximum Current(A)</th>
<th>Nominal Discharge Current (A)</th>
<th>Maximum Discharge Current (A)</th>
<th>CB on separate Normal AC input (A)</th>
<th>CB on separate Bypass AC input (A)</th>
<th>CB on common Bypass and Normal AC input (A)</th>
<th>UPS Downstream protection in reference with upstream protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>30kVA</td>
<td>G55TUPSU30H5S25</td>
<td>45</td>
<td>46</td>
<td>44</td>
<td>84</td>
<td>101</td>
<td>CB00L - 63A</td>
<td>NSX 100F 4P- TM100D</td>
<td>C60N C 16A/ C60N B 25A</td>
</tr>
<tr>
<td>40kVA</td>
<td>G55TUPSU40H5S25</td>
<td>57</td>
<td>58</td>
<td>58</td>
<td>112</td>
<td>135</td>
<td>NSX 100F 3P- TM80D</td>
<td>NSX 100F 4P- TM100D</td>
<td>C60N C 16A/ C60N B 25A</td>
</tr>
<tr>
<td>60kVA</td>
<td>G55TUPSU60H6S25</td>
<td>87</td>
<td>88</td>
<td>87</td>
<td>170</td>
<td>203</td>
<td>NSX 160F 3P- TM125D</td>
<td>NSX 160F 4P- TM125D</td>
<td>C60N C 20A/ C60N B 32A</td>
</tr>
<tr>
<td>80kVA</td>
<td>G55TUPSU80H8S25</td>
<td>115</td>
<td>116</td>
<td>116</td>
<td>226</td>
<td>270</td>
<td>NSX 160F 3P- TM160D</td>
<td>NSX 160F 4P- TM160D</td>
<td>C60N C 25A/ C60N B 50A</td>
</tr>
<tr>
<td>100kVA</td>
<td>G55TUPSU10H10S35</td>
<td>143</td>
<td>145</td>
<td>145</td>
<td>282</td>
<td>338</td>
<td>NSX 250F 3P- TM200D</td>
<td>NSX 250F 4P- TM250D</td>
<td>C60N C 32A/ C120N B 63A/ NSX100 TMG 63A</td>
</tr>
<tr>
<td>120kVA</td>
<td>G55TUPSU12H10S35</td>
<td>171</td>
<td>173</td>
<td>174</td>
<td>347</td>
<td>405</td>
<td>NSX 250F 3P- TM250D</td>
<td>NSX 250F 4P- TM250D</td>
<td>C60N C 32A/ C120N B 63A/ NSX100 TMG 63A</td>
</tr>
</tbody>
</table>

Notes:
1. Rated currents with battery float charging.
2. At <150% for 10 seconds.
3. Input and bypass cables must be run in separate conduits from output cables. More than three conductors in raceway assumed; ambient temperature of 30°C (86°F) assumed.
4. If initial load is less than UPS rated output, it is recommended that AC input, battery, and AC output wiring and over current protection be sized to UPS full load rating to accommodate possible future expansion.
5. Only copper cables are considered.
6. DC cables should be sized for a total maximum of less than 1% of CB rating.
7. OCPD = Over current Protection Device. Recommended represents 125% of nominal full load current (continuous).
8. Minimum-sized grounding conductors are recommended. Parity-sized ground conductors are recommended for full capacity.
9. Wiring requirements:
   - AC Input/Output: 3Ø, 3 or 4 wire + ground, depending on UPS configuration.
   - DC Input: 2 wire (positive and negative) + ground
10. All wiring to be in accordance with all applicable national and/or local electrical codes.
11. Minimum access clearance per UPS drawings.
12. The cable sizes are based on an ambient with maximum temperature of 35 degrees C.
13. Control wiring and power wiring must be run in separate conduit.
14. Weights and dimensions shown do not include battery cabinet(s) or other options.
15. Backup emergency generator must be properly sized for UPS application and equipped with an isochronous governor for frequency regulation, and a UPS-compatible voltage regulator for voltage stability.
16. If site configuration requires an external maintenance bypass, phase parity between UPS input and UPS bypass must be ensured. Consult applications engineer.
17. The terminals have minimum size requirements for cables.
18. Each PFC or Boost pack contains a 63A fuse per phase. 10-20kVA Ups has one pack and 30-40kVA UPS have two packs.
19. Average weight references installed weight with batteries.
20. Temperature rating of conductors: 90°C (194°F), 75°C (167°F) cable terminal conductors assumed.
21. Input : THDi < 3% at full load, 5% at 25-75%.
22. Output : THDu < 1% Phase to Phase, 1.5% Phase to Neutral for Linear Loads.
23. Heat losses refer to maximum loading and fully charged batteries.
24. All wiring to be in accordance with all applicable national and/or local electrical codes.
25. User to consult with their engineering services before adopting.
26. Applicable for Asia Pacific countries and Japan.

EFFICIENCY DETAILS

<table>
<thead>
<tr>
<th>SYSTEM</th>
<th>25% LOAD</th>
<th>50% LOAD</th>
<th>75% LOAD</th>
<th>100% LOAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>30kVA</td>
<td>83.45</td>
<td>89.73</td>
<td>91.66</td>
<td>92.37</td>
</tr>
<tr>
<td>40kVA</td>
<td>85.86</td>
<td>91.56</td>
<td>92.43</td>
<td>92.65</td>
</tr>
<tr>
<td>50kVA</td>
<td>89.73</td>
<td>91.56</td>
<td>92.23</td>
<td>92.47</td>
</tr>
<tr>
<td>60kVA</td>
<td>90.22</td>
<td>93.08</td>
<td>93.62</td>
<td>93.58</td>
</tr>
<tr>
<td>80kVA</td>
<td>90.22</td>
<td>93.08</td>
<td>93.62</td>
<td>93.58</td>
</tr>
<tr>
<td>100kVA</td>
<td>90.51</td>
<td>93.60</td>
<td>93.78</td>
<td>93.18</td>
</tr>
</tbody>
</table>

Notes:
1. Average weight references installed weight with batteries.
2.效率 details for Schneider Electric are provided as a reference. For specific details, please consult the manufacturer's documentation or contact them directly.
3. Schneider Electric is a reputable manufacturer offering comprehensive technical support for their products.

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