

Table 8.3-9—Cable Color Codes

Class 1E Cable Division	Color Code
Division 1	Yellow
Division 2	Green
Division 3	Blue
Division 4	Red

**Table 8.3-10—Onsite DC Power System Component Data Nominal Values
Sheet 1 of 2**

Component	Division/Train	Nominal Value
1. EUPS Batteries:	Each EUPS Battery	2.22 V/cell nominal float voltage 2.33 V/cell equalize voltage 1.215 nominal specific gravity at 77 °F
	Divisions 1 and 4	240 cells 1800 AH at eight hour rate to 1.75 V/cell at 77 °F (1)
	Divisions 2 and 3	120 cells 2147 AH at eight hour rate to 1.75 V/cell at 77 °F (1)
2. EUPS Battery Chargers	Divisions 1 and 4 & Divisions 2 and 3	Rated nominal input voltage 480 Vac, 3 phase Rated maximum input voltage 508 Vac Rated minimum input voltage 413 Vac Rated nominal ac supply frequency 57 to 63 Hz Rated nominal output voltage 250 Vdc
	Divisions 1 and 4	Required output current 382 A ⁽²⁾
	Divisions 2 and 3	Required output current 333 A ⁽²⁾
3. EUPS Inverters	Divisions 1 and 4 & Divisions 2 and 3	Rated nominal input voltage 250 Vdc Rated maximum input voltage 280 Vdc Rated minimum input voltage 200 Vdc Rated nominal output voltage 480 Vac 3 phase Rated power regulation ± two percent Rated nominal output frequency 60 Hz ± ½ percent Total harmonic distortion less than five percent total voltage distortion, less than three percent individual voltage distortion
	Divisions 1 and 4	Rated power 450 kVA
	Divisions 2 and 3	Rated power 300 kVA
4. EUPS AC/DC Converters	Divisions 1 and 4 & Divisions 2 and 3	Rated Nominal input voltage 480 Vac Rated nominal output voltage 24 Vdc
5. EUPS DC/DC Converters	Divisions 1 and 4 & Divisions 2 and 3	Rated nominal input voltage 250 Vdc Rated maximum input voltage 280 Vdc Rated minimum input voltage 200 Vdc Rated nominal output voltage 24 Vdc

**Table 8.3-10—Onsite DC Power System Component Data Nominal Values
Sheet 2 of 2**

Component	Division/Train	Nominal Value
6. EUPS DC Distribution Switchboard	Divisions 1 and 4	Rated Continuous Current 2500 A Rated Short Circuit Current 39 kA
	Divisions 2 and 3	Rated Continuous Current 2000 A Rated Short Circuit Current 30 kA
7. EUPS AC Distribution MCC	Divisions 1 and 4 & Divisions 2 and 3	Rated Maximum Voltage, 508 V Maximum Continuous Current, 2000 A Maximum Bus Bracing Current, 100 kA rms
8. 12UPS Batteries	Trains 1 and 2	240 cells 2.22 V/cell nominal float voltage 2.33 V/cell equalize voltage 3616 AH at 12 hour rate to 1.75 V/cell at 77 °F ⁽¹⁾ 1.215 nominal specific gravity at 77 °F
9. 12UPS Battery Chargers	Trains 1 and 2	Rated nominal input voltage 480 Vac, 3 phase Rated maximum input voltage 508 Vac Rated minimum input voltage 424 Vac Rated nominal ac supply frequency 57 to 63 Hz Rated nominal output voltage 250 Vdc Required output current 800 A ⁽²⁾
10. 12UPS System Inverters	Trains 1 and 2	Rated nominal input voltage 250 Vdc Rated maximum input voltage 280 Vdc Rated minimum input voltage 210 Vdc Rated nominal output voltage 480 Vac 3 phase Rated power regulation ± two percent Rated power 210 kVA Rated nominal output frequency 60 ± ½ percent
11. 12UPS AC/DC Converters	Trains 1, 2, 3, and 4	Rated Nominal input voltage 480 Vac ± 2 percent Rated input frequency 60 Hz ± ½ percent Rated nominal output voltage 24 Vdc
12. 12UPS DC/DC Converters	Trains 1, 2, 3, and 4	Rated nominal input voltage 250 Vdc Rated maximum input voltage 280 Vdc Rated minimum input voltage 210 Vdc Rated nominal output voltage 24 Vdc

Notes:

1. Battery amp-hour rating for different discharge rates are in accordance with vendor specific performance characteristic curves.
2. Battery charger current limiter will limit output current to below 150 percent of the full load output current rating.