



CI-0704

TAB 7: TECHNICAL DISCIPLINES
Communications

provides an estimate of the maximum wattage that each device requires. Table 1. shows power requirements for each device.

Device	Watts
SPOS (Station Point of Sale)	200
SFTP (Station Fare Transaction Processor)	35
CQD (Card Query Device)	35
HCR (Handheld Card Reader) Cradles	120

Table 1: Power Requirements

For Electrical wiring specifications, refer to Tab 7 Section CI-0703 Electrical

Communications Rack

In the Communications Room, the required receptacles, each fed from dedicated power circuits from a local non UPS (generator backed up), shall be provided at each CC Rack.

The types of receptacles required at the different locations are as follows:

Main CC Rack – Two (2) dedicated NEMA L5-20R (120V, 20A) mounted on cable tray fed from two (2) 15A breakers on different circuits, providing two (2) extension cords from the two (2) locked receptacles to reach bottom of the CC rack. The two extension cords shall include one (1) L5-20P plug each at top end of cords to plug into the twist lock receptacles and one (1) NEMA 5-20R receptacle each at bottom of cord (which accepts both NEMA 5-15P and NEMA 5-20P for plugging PRESTO UPS which is supplied by PRESTO supplier).

Main CC Rack if Transit Safety is included – In addition to Main CC Rack requirements, One (1) dedicated NEMA L6-20R (208V, 20A) mounted on the cable tray fed from One (1) 20A breaker, providing an extension cord from the locked receptacle to reach bottom of CC rack with one (1) NEMA L6-20P plug at top end to plug into twist lock receptacle and one (1) L6-20R receptacle at bottom of CC Rack (for plugging PRESTO UPS which is supplied by PRESTO supplier).

Secondary CC Rack - Two (2) dedicated NEMA L5-20R (120V, 20A) mounted on cable tray fed from two (2) 15A breakers on different circuits, providing two (2) extension cords from two (2) locked receptacles to reach bottom of the CC rack. The two extension cords shall include one (1) L5-20P plug each at top end of cords to plug into the twist lock receptacles and one (1) NEMA 5-20R receptacle each at bottom of cord (which accepts both NEMA 5-15P and NEMA 5-20P for plugging PRESTO UPS which is supplied by PRESTO supplier).

PRESTO Devices



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Each **SPOS** (at Service Counter) is locally backed-up by PRESTO UPS (provided by PRESTO equipment supplier) and the PRESTO UPS requires a separate NEMA 5-20R (120V, 20A) receptacle fed from a 15A breaker on a dedicated non UPS power circuit (generator backed up). The power outlet shall be located within a maximum 2 m of the service position and labeled with PRESTO.

SFTP and **CQD** devices require dedicated power circuits from UPS located in the CC Rack (UPS provided by PRESTO equipment supplier). Power for up to four (4) devices (SFTP and CQD) can be daisy-chain connected to the UPS in the CC Rack. If devices are daisy-chained, they shall be staggered such that devices in close proximity to each other will be fed on separate circuits. Each such circuit shall be protected by a circuit breaker which will also serve as an isolation point near the CC rack (see Standard Drawing PRES-002 Detail 3 for power wiring termination details at CC Rack location).



An individual ground wire for each SFTP and CQD shall be run and terminated in the copper ground bus at power junction box at CC Rack location.

At the CC rack end the plugs for the SFTP and CQD must be SOW Service Cord complete with Commercial specification grade (straight blade valise type as shown below) plugs to be connected to the PRESTO System UPS in CC Rack.

Example of PRESTO Device plugs (for illustration purposes only):

