



**ALTERNATIVE METHOD: AC POWER TO RETAIL POS & COMPUTER SYSTEMS**

**Relaxed/Power Conditioned AC Power System.** When Preferred AC Power is cost prohibitive, a relaxed AC Power System may be used. **The Preferred AC Power System is recommended by DCRS.** Careful attention must be given when the Customer selects this Relaxed/Power Conditioned method.

**If this alternative method is selected, the Customer understands and acknowledges that:**

- **Approved Ground/Power Conditioners ARE REQUIRED at ALL POS, Computer and Printer equipment locations (EVERY DEVICE on the network).** Approved Uninterruptible Power Supplies (UPS) are also required at each system Server.
- All POS Power branch circuits must originate from the same "Non-Dedicated" Power Panel. This Panel, when possible, should be equipped with an "isolated" ground bus that is electrically isolated from the panel frame and must be provided with an insulated equipment grounding conductor (sized the same as the supply conductors) which is installed in the same conduit as the supply conductors from the main or source power panel. The equipment grounding conductor must be terminated on the ground bus in the main or source panel and on the "isolated" ground bus in the "Non-Dedicated" Power Panel.
- In the event multiple main or source AC Power Panels are utilized, ground potential problems could severely degrade the performance of the POS (even with Power Conditioners). Line Drivers or Optical Isolation Devices may be required.
- Any Power Panel supplying heavy equipment should not be selected as the "Non-Dedicated" Power Panel supplying the POS.
- POS Power Circuits must be "dedicated" for the POS equipment only. **No equipment other than POS equipment may be supplied by these "dedicated" circuits.**
- POS Power Circuits must also be installed in a dedicated ferrous conduit system. No circuits, other than POS, may exist in this dedicated conduit. Flexible, rigid, or Greenfield metallic conduit is acceptable. **Aluminum conduit is not acceptable.**
- Each "dedicated" circuit must include a full size (same as supply conductors) insulated equipment grounding conductor. When possible, the ground conductor should be terminated at the "isolated" ground bus in the Panel.
- All POS Power receptacles shall be the isolated ground type and shall be installed in accordance with the specifications contained in the separate DCRS "**AC POWER REQUIREMENTS: RETAIL POINT OF SALE & COMPUTER SYSTEMS**" document.
- DCRS provides only premium level Power Conditioning products. Base or mid level products should never be used.
- Failure to follow these specifications will result in the voiding of hardware warranty and/or coverage under a support plan. DCRS Solutions is not liable under any circumstances for any damages, claims, losses or expenses, arising from, related to, or caused by AC Power related disturbances.

***I have read and understand the above specifications and conditions, and I agree to comply with these requirements prior to any installation of any computer devices from DCRS Solutions. If clarification is needed, please contact the DCRS Customer Service Manager by calling 314- 739-6666 or 1-800-231-0166.***

COMPANY NAME \_\_\_\_\_ DATE \_\_\_\_\_

AUTHORIZED SIGNATURE \_\_\_\_\_ TITLE \_\_\_\_\_

# ALTERNATIVE POWER TO RETAIL POS & COMPUTER SYSTEM

## GROUND GUARD POWER CONDITIONER Conversion Table

<u>Sample DCRS Product</u>	<u>Required Product</u>
MICROS Digital Display Controller (DDC) and Display	always use Power Filter 700247-059
MICROS Workstations: Ws5 ( <b>not Ws6</b> ), mTablet, KW270, with <b>NO POS Printer</b>	.65 amp, 2 outlet, -075
MICROS Autocut or Thermal Printer: Standalone at POS or as a Remote	.65 amp, 2 outlet, -075
MICROS KDS USB Controller <b>with Non-Touch LCD</b>	.65 amp, 2 outlet, -075
MICROS Order Confirmation Display ( <b>NO Fan Assembly</b> )	.65 amp, 2 outlet, -075
(MobileBytes) iPad w/Charger, with <b>NO IP Ethernet Thermal POS Printer</b> (Star)	.65 amp, 2 outlet, -075
(MobileBytes) TP-LINK Router: Standalone	.65 amp, 2 outlet, -075
MICROS Workstations: Ws5— <b>not Ws6</b> , mTablet, KW270) <b>with Thermal or Autocut Printer</b>	1.0 amp, 2 outlet, -080
MICROS KDS USB Controller <b>with TOUCH LCD</b>	1.0 amp, 2 outlet, -080
(MobileBytes) IP Ethernet Thermal POS Printer, with or without Cash Drawer ( <b>NO iPad w/Charger</b> )	1.0 amp, 2 outlet, -080
MICROS Workstations: Ws6, PCWs, <b>with Thermal (or Autocut) Printer</b> and Small Hand Scanner	1.5 amp, 4 outlet, -081
HP PC with LCD ( <b>NO Laser Report Printer</b> )*	1.5 amp, 4 outlet, -081
HP rp58 POS (or HP PC) with Touch or Non-Touch LCD, Thermal Printer and Small Hand Scanner	1.5 amp, 4 outlet, -081
HP rp5800 Small SERVER with LCD ( <b>NO Laser Report Printer</b> )*	1.5 amp, 4 outlet, -081
(MobileBytes) iPad w/Charger, <b>with IP Ethernet Thermal POS Printer</b> , with or without Cash Drawer	1.5 amp, 4 outlet, -081
MICROS Workstations: Ws5, Ws6, mTablet) with Thermal Printer, Small Scale & Coin Dispenser	3.0 amp, 4 outlet, -083
HP 1xx/3xx Large SERVER with LCD ( <b>NO Laser Printer</b> )*	3.0 amp, 4 outlet, -083
(MobileBytes) iPad w/Charger, <b>with IP Ethernet Thermal Printer</b> , Cash Drawer, Router, Access Point	3.0 amp, 4 outlet, -083
<b>LASER PRINTER (<u>alone</u>)</b>	4.0 amp, 2 outlet, -02GR
HP SERVER (any) with LCD, <b>and <u>with</u> LASER PRINTER*</b>	6.0 amp, 4 outlet, -03GR

**\*Please NOTE: SonicWALL can be added and used on the Ground Guard/Power Conditioner of any SERVER, or PC noted above (insure outlet is available).**

SA019