



AB Series Power Distribution Unit Installation Instructions

Description: The AB series Power Distribution Units (PDUs) provide Auto Transfer Switching from primary (Source A) to secondary (Source B) in the event of primary source failure. PDU automatically transfers back to primary source when it becomes available. Front mounted LED's indicate availability of power at Source A and Source B. Current monitoring option displays the current drawn through the active supply source.

Specifications:

Approvals: UL, cUL Listed 60950

Unit Ratings:	ABN102-101R15	1 Indicates 125 Volt @ 15 Amp de-rated to 12 Amp
	ABN102-102R15	2 Indicates 125 Volt @ 20 Amp de-rated to 16 Amp
	ABN102-002C13C20	125/230 Volt @ 20 Amp de-rated to 16 Amp

Receptacle Ratings:	NEMA 5-15R	125 Volt, 15 Amp	IEC-320 C13	250 Volt, 15 Amp
	NEMA 5-20R	125 Volt, 20 Amp	IEC-320 C19	250 Volt, 20 Amp

Relay:

Type	Electromechanical DPDT Relay	Switch Time	< 25 milliseconds
Relay Rating	35Amps @ 277 VAC	Pickup	85% or less of Nominal
Mechanical Life	10,000,000 Operations		
Expected Life @ Rated Load	100,000 Operations		

ATS Guidelines:

- Select voltage on ABN102-002C12C20 unit before applying power. Failure to do so may result in damage to the equipment.
- Source Power should be Phase Synchronized, high voltage potential may result in relay weld when sources are not phase synchronized.
- Some equipment may be sensitive to switch time and require a UPS inline.
- A spike of inrush current may be present on some loads when switching power sources, do not overload ATS to prevent relay weld and tripping branch circuit protection.

Installation Guidelines:

- If the PDU is installed in a cabinet the ambient temperature of the rack should be no greater than 25°C.
- Install the PDU such that the amount of airflow required for safe operation of equipment is not compromised.
- Mount the PDU so that a hazardous condition is not achieved due to uneven mechanical loading.
- Follow nameplate ratings when connecting equipment to the branch circuit. Take into consideration the effect that overloading of the circuits might have on overcurrent protection and supply wiring.
- Reliable earthing of rack-mount equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit.
- PDU is intended for Restricted Access Location. Only service personnel should install and access the PDU.
- For pluggable equipment, install the PDU so the input plug may be disconnected for service.
- Caution: Disconnect all power cords before servicing.

Installation:

1. Using appropriate hardware, mount unit to rack.
2. Plug PDU into appropriately rated receptacle.
3. Plug in devices to be powered by PDU.
4. Power on devices to be powered by PDU, Sequential power up is recommended to avoid high inrush current.

Service and Maintenance:

No service or maintenance is required. Do not attempt to open the PDU or you may void the warranty. No serviceable parts inside. It is recommended that power be removed from the unit before installing or removing any equipment.