



The AC values below are current ratings per phase. these maximum and nominal ratings should be considered when choosing the appropriate AC over current protection device. NEC (National Electric Code) Section 210-20a rules must be applied. DC current rating is the maximum battery discharge current which the UPS allows.

UPS rating	Power Block QTY	Rectifier AC input		Bypass AC input	Common AC input		DC input (See Note 4)
		Nom.	Max.		Nom.	Max.	
500 kW / 500 kVA	2	630 A	690 A	601 A	630 A	690 A	1210 A

Size of Branch circuit over current protection - All Models -
"CAUTION - To Reduce the risk of fire, only connect UPS to the circuit provided with (see below) Maximum amperes branch circuit over current protection in according with the NEC, NSI / NFPA 70"

UPS rating	Rectifier AC input		Bypass AC input		Rectifier AC input		DC input (See Note 4) 80% / 100%
	80% Rated Bkr	100% Rated Bkr	80% Rated Bkr	100% Rated Bkr	80% Rated Bkr	100% Rated Bkr	
500 kW / 500 kVA	900 A	700 A	800 A	700 A	900 A	700 A	1200 A / 1200 A

NOTE:

- 1) Bypass and Rectifier input must be connected with clockwise phase rotation.
- 2) For eBoost operating mode, the Bypass input must be fed from a grounded-WYE electrical system (4 Wire+Ground). Consult factory for 3-wire Input system.
- 3) UPS is configured for single input as standard. UPS may be configured for dual input by removing the jumpers between Rectifier and Bypass Inputs.
- 4) An external battery breaker must be provided that includes a 24VDC undervoltage release and Aux contacts.
- 5) UPS designed for installation in an electrical system with 65kA
- 6) Contact ABB for details concerning operation with 3-wire input.

Draw	Barbarani R.	08.04.21
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ECN	Name	Revision
		1
		3.12.14



Power Protection
6572-Quartino, Switzerland

Electrical Schematic

TLE 500 kW
with eBOOST technology

In case of updating must be revised also ABB document 4NWD005451

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