

General characteristics for environmental consideration

MASTER HP-UL Series		W/D TCE			W/ TCE		
Type	MHT 300	MHT 400	MHT 500	MHT 300	MHT 400	MHT 500	
Rated Power	KVA/KW 300/300	400/400	500/450	300/300	400/400	500/450	
Power loss (kW) 50%/load/100%/load	KW 7.1/16.5	10.1/21.5	11.3/24.7	7.1/16.5	10.1/21.5	11.3/24.7	
Air flow	8162/4801						
Max ambient temperature	40/104						
Altitude without derating	1000/3300						
Relative Humidity	= 95% non condensing						
Dimensions and weight							
UPS weight	kg/lb 1900/ 4190	2150 / 4741	2000 / 4410	2250 / 4961			
Dimensions WxDxH	mm/in 1500x1000x1900 - 59x39.37x74.80	1900x1000x1900 - 74.80x39.37x74.80					
Footprint area	m²/ft² 1.5 / 16.14	1.9 / 20.44					
TOP	Opening for Cable Entry						
	m²/ft² NA	0,29 / 3,14					
BOTTOM	0,23 / 2,48		0,26 / 2,86				

POWER CONNECTIONS

This UPS is rated for use on a circuit capable of delivering no more than (SCCR) 50,000A rms symmetrical amperes, 480 volts maximum

WARNING

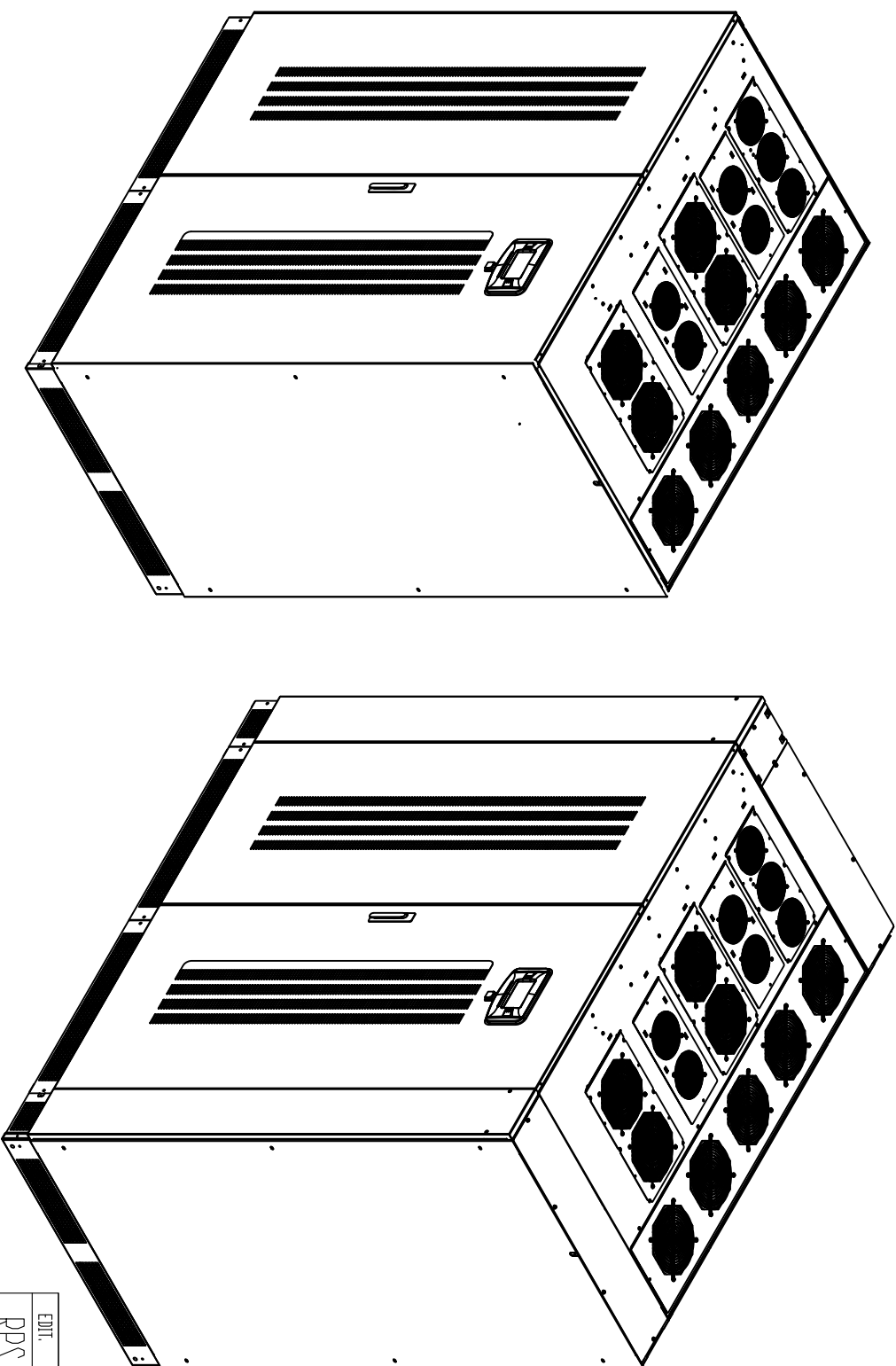
The UPS is provided with Bond that connects the Neutral Output to the frame ground for delta input connection. This is required to meet NEC grounding code for separately derived neutrals. When a Neutral is provided in a Wye configured input connection, the bond should be removed, in accordance with Local code requirements. Refer to NEC article 250(Grounding and Bonding) for identify system of grounding and size of Equipment grounding conductor

Branch DCP devices must be provided as parts of plant.

Use at least 75°C rated copper wires. The size of cables are reported from NEC Table 310.16. Could be required a larger awg size than shown in these tables, because of temperature, number of conductors in conduit or long service runs.

MASTER HP UL size (KVA)	300	400	500**
INPUT AC LINE - SINGLE INPUT			
Input Line 3Ph + N + PE	277/480V 60Hz		
Branch-DCP device size (A)	600	800	
Phase and neutral cond. Size (kcmil/mm²)	2x250 / 2x127	3x250 / 3x127	4x250 / 4x127
INPUT AC LINE - DUAL SEPARATE INPUT			
(Remove the busbars connecting Input Mains line and Bypass Line			
See details on picture)			
Input Mains 3Ph + PE	277/480V 60Hz		
Branch-DCP device size (A)	600	800	
Phase and neutral cond. Size (kcmil/mm²)	2x250 / 2x127	3x250 / 3x127	4x250 / 4x127
Input Bypass Line 3Ph + N + PE	277/480V 60Hz		
Branch-DCP device size (A)	600	800	
Phase and neutral cond. Size (kcmil/mm²)	2x250 / 2x127	3x250 / 3x127	4x250 / 4x127
Output AC LINE 3Ph + N	277/480V 60Hz		
Phase and neutral cond. Size (kcmil/mm²)	3x2/0 / 3x67.4	3x3/0 / 3x85	3x4/0 / 4x107
Battery DC Input			
Branch-DCP device size (A) *	800	1000	1200
Polarities + and - conductors (kcmil/mm²)	3x250 / 3x127	3x350 / 3x177	3x500 / 3x253

\*If "Riello BBX 1900 480V UL L8 3U" battery cabinets are provided, the DCP device is included in the cabinet. For other applications read "User Manual" Battery connections.  
\*\*Note: For 500kVA, when installing copper conductors, use a suitable oxide inhibiting compound ground terminal of Battery Cabinet must be connected to ground terminal of UPS Cabinet.



EDIT:	ARBeccchi	APPR:	BBochini	DATA:	18 / 12 / 19	DRWA. No:		REV.:	
REPLACE:	RPS	VARIAZIONI:	Modif. branch-DCP device size	SCALE:	1:20	Peso/Weight:		PAG.	1
NOTE:	...								
TITLE:	Manu MHT 300-500k DRW En UL								
REV.:		DRWA. No:	01MHTV30R9ENIA	PAG.	1	DI:		10	