



Title	UPS PERFORMANCE TYPE TEST REPORT		
Date	06/02/2015	Approved by	J Yates
Subject	UPS Input/Output characteristics - static conditions		
Test	Input-Output characteristics, losses, efficiency (EN 62040-3)		

Purpose To measure the input and output UPS performance at differing load levels (0-25%-50%-75%-100%) in order to verify

- 1 Efficiency and losses
- 2 THDv
- 3 Output static stability
- 4 THDi and input pf

MHE 400 PERFORMANCE																		
UPS kVA rating				400				UPS kW rating				400						
System			Input							Output								
UPS	Load %	System Losses (kW)	Overall Efficiency %	Volts ac (Ph/Ph)	Amps	kVA	kW	THDi	Power Factor	Volts ac (Ph/N)	Amps	kVA	kW	THDv 1 %	THDv 2 %	THDv 3 %	Power Factor	
0	3.6	0	0	400.8	22.4	15.5	3.6	0.00		230.3	0.0	0.0	0.0	0.00	0.00	0.00	1.0	
13.3	4.5	92.2	399.6	86.7	60.0	57.7	8.10	0.962	230.5	77.0	53.3	53.3	1.00	0.80	0.90	1.0		
25.5	5.8	94.6	399.1	157.1	108.6	107.6	4.00	0.991	230.5	147.2	101.8	101.8	1.20	1.00	1.00	1.0		
38.6	7.6	95.3	398.9	235.4	162.7	162.1	2.70	0.996	230.6	223.3	154.5	154.5	1.40	1.30	1.30	1.0		
50.2	9.4	95.5	398.7	304.9	210.6	210.2	2.20	0.998	230.6	290.2	200.8	200.8	1.20	1.20	1.30	1.0		
63.3	12.3	95.4	398.5	385.0	265.8	265.5	1.50	0.999	230.7	365.7	253.1	253.1	0.90	1.00	1.10	1.0		
75.1	15.3	95.2	398.4	457.9	316.0	315.7	1.30	0.999	230.8	433.8	300.4	300.4	0.80	0.80	0.90	1.0		
87.7	19.0	94.9	398.0	536.7	370.1	369.8	1.10	0.999	230.8	506.6	350.8	350.8	0.60	0.60	0.80	1.0		
99.1	23.0	94.5	397.7	609.7	419.6	419.3	1.20	0.999	230.7	572.6	396.3	396.3	0.70	0.70	0.90	1.0		

