

VEERMATA JIJABAI TECHNOLOGICAL INSTITUTE

(VJTI)

(Central Technological Institute, Maharashtra State)
MATUNGA, MUMBAI - 400 019.**6185 TEST ON UNINTERRUPTIBLE POWER SUPPLY**

Test/2/E / /2004

Date: 03.11.2004

Tested for: M/s Oskar Engineers Pvt. Ltd

21, Almaram, Prashant Nagar, Navi Peth, Pune - 411030

UPS of capacity 500VA (300W line interactive) supplied by the party is tested for the specifications supplied by the party. All testes are carried out on site by Prof. H.B. Chaudhari & Mr. M.R. Satam (H.V. LAB, V.J.T.I, Mumbai). The tests are carried out by party's request letter no. ref No. GC-228, dated 25/10/2004.

Date of test: 01.11.2004

Ambient Temp: 28.0 Deg.C

Sr No: 18661004

Sr. No.	Para Of tender enquiries Specifications	Compliance To Specifications of the Item Offered	Remarks and Results
1	Make	Powercon (Sr.No. 18661004)	Complied
2	Model	PCS-S 500	Complied
3	Capacity	500VA (300W) line interactive microprocessor based	Complied
4	Technology	Using MOSFET High Frequency Switching (PWM)	Complied
5	Input Voltage	140 VAC to 290 VAC at full load	Complied
6	Output Voltage Regulation on mains mode	230VAC - 15% to + 10 % within specified input range	Complied
7	Output Voltage On Battery Mode	230 Volts +/- 0.5% at Full load	Complied
8	Output Frequency On Battery Mode	50 Hz +/- 0.5 %	Complied
9	Output wavefrom on battery mode	Stepped approximation to Sine wave	Complied
10	Transfer Time (mains to battery)	2-4 Milliseconds	Complied
11	Load Power Factor on battery and mains mode	0.6 lag (500VA/300W)	Complied
12	Overload Capacity With and without battery mode	Should support 125 % overload for 60 Seconds & 150% for 1 Second without change in output voltage regulation	Complied
13	Protections	On Short Circuit UPS out put should cutoff immediately	Complied

The above results are valid only for the sample tested.


Mangal K. Dekar
Incharge of testing
Electrical Eng. Dept.


H.B. Chaudhari
Tested by


For Principal & Secretary

VEERMATA JIJABAI TECHNOLOGICAL INSTITUTE
(VJTI)[Central Technological Institute, Maharashtra State]
MATUNGA, MUMBAI - 400 019.6/83 **TEST ON UNINTERRUPTIBLE POWER SUPPLY**

Test/2/E / /2004

Date: 03.11.2004

Tested for : M/s Oskar Engineers Pvt. Ltd.

21, Atmaram, Prashant Nagar, Navi Peth, Pune - 411030.

UPS of capacity 1000 VA (700W On line) supplied by the party is tested for the specifications supplied by the party. All testes are carried out on site by Prof. H.B. Chaudhari & Mr. M.R. Satam. (H.V.LAB,V.J.T.I, Mumbai)
The tests are carried out by party's request letter no. ref No. GC-228, dated 25/10/2004.


Date of test: 02.11.2004
Sr.No. P0410071

Ambient Temp: 28.0 Deg.C.

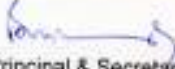
Sr. No.	Para Of tender enquiries Specifications	Compliance To Specifications of the Item Offered	Remarks and Results
1	Make	Switching Circuits Pvt. Ltd	Complied
2	Model	OS OL - 1000	Complied
3	Capacity	1KVA Online	Complied
4	Technology	PWM Technology using fully digitized microprocessor controlled	Complied
5	Inverter Technology	True online Double Conversion Must use IGBT	Complied
6	Crest Factor	Minimum 3:1 at full load	Complied
7	Output Wave Form	Pure Sine wave	Complied
8	Active Input PF Correction	Must be Provided (should be more than 0.95)	Complied
9	Input voltage Range	120VAC to 300VAC at Typical Load (50% Rated Load)	Complied
10	Input Frequency Range	50 +/- 3Hz	Complied
11	Input power at full load (At minimum rated power factor & full load)	Please specify	770 Watts
12	Output voltage	230VAC, Single Phase +/- 1% at full load & Online output voltage select	Complied
13	Output Frequency	50Hz +/- 0.5% (Free running)	Complied
14	Inverter Efficiency:	> 90%	Complied



Mangal Desai
Incharge of testing
Electrical Eng. Dept.



Tested by



For Principal & Secretary

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[Central Technological Institute, Maharashtra State]
MATUNGA, MUMBAI - 400 019.

Sr. No.	Para Of tender enquiries Specifications	Compliance To Specifications of the Item Offered	Remarks and Results
15	Static switch (Bi-directional)	Should be provided and should take care of 100% load transfer	Complied
16	Load power factor	0.7 lag.	Complied
17	Overload capacity	125% overload for 1 minutes, 150% overload for 30 Secs.	Complied
18	Isolation	Isolation of power, Input should have MCB and Output should be electronically protected. Also battery connection to have MCB/ MCCB/ Fuse & Manual Service Bypass Required for > 5 KVA onwards and for 1 to 3 KVA Optional Item.	Complied
19	Total Harmonic Distortion	< 3% for 100% Linear Load < 5% for 100% non Linear load	Complied

The above results are valid only for the sample tested.


Incharge of testing
Electrical Eng. Dept.


Tested by


For Principal & Secretary

VEERMATA JIJABAI TECHNOLOGICAL INSTITUTE (VJTI)

(Central Technological Institute, Maharashtra State)
MATUNGA, MUMBAI - 400 019.

6/84 TEST ON UNINTERRUPTIBLE POWER SUPPLY

Test/2/E / /2004

Date: 03.11.2004

Tested for : M/s Oskar Engineers Pvt. Ltd.

21, Atmaram, Prashant Nagar, Navi Peth, Pune - 411030.

UPS of capacity 2 KVA (1400W On line) supplied by the party is tested for the specifications supplied by the party. All testes are carried out on site by Prof. H.B. Chaudhari & Mr. M.R. Satam. (H.V LAB,V.J.T.I, Mumbai)
The tests are carried out by party's request letter no. ref No. GC-228, dated 25/10/2004.

Date of test: 02.11.2004

Ambient Temp: 28.0 Deg. C.

Sr.No. P0410070

Sr. No.	Para Of tender enquiries Specifications	Compliance To Specifications of the Item Offered	Remarks and Results
1	Make	Switching Circutes Pvt. Ltd	Complied
2	Model	OS OL - 2000	Complied
3	Capacity	2KVA Online	Complied
4	Technology	PWM Technology using fully digitized microprocessor controlled	Complied
5	Inverter Technology	True online Double Conversion Must use IGBT	Complied
6	Crest Factor	Minimum 3:1 at full load	Complied
7	Output Wave Form	Pure Sine wave	Complied
8	Active Input PF Correction	Must be Provided (should be more than 0.95)	Complied
9	Input voltage Range	120VAC to 300VAC at Typical Load (50% Rated Load)	Complied
10	Input Frequency Range	50 +/- 3Hz	Complied
11	Input power at full load (At minimum rated power factor & full load)	Please specify	1520 Watts
12	Output voltage	230VAC, Single Phase +/- 1% at full load & Online output voltage select	Complied
13	Output Frequency	50Hz +/- 0.5% (Free running)	Complied
14	Inverter Efficiency:	> 90%	Complied


 Mangaludeka
 Incharge of testing
 Electrical Eng. Dept.


 Tested by


 For Principal & Secretary

VEERMATA JIJABAI TECHNOLOGICAL INSTITUTE**(VJTI)****[Central Technological Institute, Maharashtra State]
MATUNGA, MUMBAI - 400 019.**

Sr. No.	Para Of tender enquiries Specifications	Compliance To Specifications of the Item Offered	Remarks and Results
15	Static switch (Bi-directional)	Should be provided and should take care of 100% load transfer	Complied
16	Load power factor	0.7 lag	Complied
17	Overload capacity	125% overload for 1 minutes, 150% overload for 30 Secs.	Complied
18	Isolation	Isolation of power, Input should have MCB and Output should be electronically protected. Also battery connection to have MCB/ MCCB/ Fuse & Manual Service Bypass Required for > 5 KVA onwards and for 1 to 3 KVA Optional Item.	Complied
19	Total Harmonic Distortion	< 3% for 100% Linear Load < 5% for 100% non Linear load	Complied

The above results are valid only for the sample tested.


Incharge of testing
Electrical Eng. Dept.


Tested by



For Principal & Secretary

VEERMATA JIJABAI TECHNOLOGICAL INSTITUTE
(VJTI)
(Central Technological Institute, Maharashtra State)
MATUNGA, MUMBAI - 400 019.

6181 **TEST ON UNINTERRUPTIBLE POWER SUPPLY**

Test/2/E / 2004

Date: 03.11.2004

Tested for : M/s Oskar Engineers Pvt. Ltd.

21, Atmaram, Prashant Nagar, Navi Peth, Pune - 411030.

UPS of capacity 3000 VA (2100W On line) supplied by the party is tested for the specifications supplied by the party. All testes are carried out on site by Prof. H.B. Chaudhari & Mr. M.R. Salam. (H.V.LAB,V.J.T.I, Mumbai)
The tests are carried out by party's request letter no. ref No. GC-228, dated 25/10/2004.

Date of test: 02.11.2004

Ambient Temp: 28.0 Deg.C.

Sr.No. 0408009

Sr. No.	Para Of tender enquiries Specifications	Compliance To Specifications of the Item Offered	Remarks and Results
1	Make	Switching Circutes Pvt. Ltd.	Complied
2	Model	OS OL - 3000	Complied
3	Capacity	3KVA Online	Complied
4	Technology	PWM Technology using fully digitized microprocessor controlled	Complied
5	Inverter Technology	True online Double Conversion Must use IGBT	Complied
6	Crest Factor	Minimum 3:1 at full load	Complied
7	Output Wave Form	Pure Sine wave	Complied
8	Active Input PF Correction	Must be Provided (should be more than 0.95)	Complied
9	Input voltage Range	120VAC to 300VAC at Typical Load (50% Rated Load)	Complied
10	Input Frequency Range	50 +/- 3Hz	Complied
11	Input power at full load (At minimum rated power factor & full load)	Please specify	Complied
12	Output voltage	230VAC, Single Phase +/- 1% at full load & Online output voltage select	Complied
13	Output Frequency	50Hz +/- 0.5% (Free running)	Complied
14	Inverter Efficiency:	> 90%	Complied


 Incharge of testing
 Electrical Eng. Dept.


 Tested by


 For Principal & Secretary

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MATUNGA, MUMBAI - 400 019.**

Sr. No.	Para Of tender enquiries Specifications	Compliance To Specifications of the Item Offered	Remarks and Results
15	Static switch (Bi-directional)	Should be provided and should take care of 100% load transfer	Complied
16	Load power factor	0.7 lag	Complied
17	Overload capacity	125% overload for 1 minutes, 150% overload for 30 Secs.	Complied
18	Isolation	Isolation of power, Input should have MCB and Output should be electronically protected. Also battery connection to have MCB/ MCCB/ Fuse & Manual Service Bypass Required for > 5 KVA onwards and for 1 to 3 KVA Optional Item.	Complied
19	Total Harmonic Distortion	< 3% for 100% Linear Load < 5% for 100% non Linear load	Complied

The above results are valid only for the sample tested.


Incharge of testing
Electrical Eng. Dept.


Tested by



For Principal & Secretary

VEERMATA JIJABAI TECHNOLOGICAL INSTITUTE

(VJTI)

(Central Technological Institute, Maharashtra State)
MATUNGA, MUMBAI - 400 019.**6/75 TEST ON UNINTERRUPTIBLE POWER SUPPLY**

Test/2/E / /2004

Date: 03.11.2004

Tested for : M/s Oskar Engineers Pvt. Ltd.

21, Atmaram, Prashant Nagar, Navi Peth, Pune - 411030.

UPS of capacity 5000 VA (3500W On line) supplied by the party is tested for the specifications supplied by the party. All testes are carried out on site by Prof. H.B. Chaudhari & Mr. M.R. Satam. (H.V.LAB,V.J.T.I, Mumbai)
The tests are carried out by party's request letter no. ref No. GC-228, dated 25/10/2004.

Date of test: 02.11.2004
Sr.No. DF060407

Ambient Temp: 28.0 Deg.C.

Sr. No.	Para Of tender enquiries Specifications	Compliance To Specifications of the Item Offered	Remarks and Results
1	Make	Switching Circutes Pvt. Ltd	Complied
2	Model	OS OL - 5000	Complied
3	Capacity	5KVA Online	Complied
4	Technology	PWM Technology using fully digitized microprocessor controlled	Complied
5	Inverter Technology	True online Double Conversion Must use IGBT	Complied
6	Crest Factor	Minimum 3:1 at full load.	Complied
7	Output Wave Form	Pure Sine wave	Complied
8	Active Input PF Correction	Must be Provided (should be more than 0.95)	Complied
9	Input voltage Range	120VAC to 300VAC at Typical Load (50% Rated Load)	Complied
10	Input Frequency Range	50 +/- 3Hz	Complied
11	Input power at full load (At minimum rated power factor & full load)	Please specify	3800 Watts
12	Output voltage	230VAC, Single Phase +/- 1% at full load & Online output voltage select	Complied
13	Output Frequency	50Hz +/- 0.5% (Free running)	Complied
14	Inverter Efficiency:	> 90%	Complied



Mangal Chetani
Incharge of testing
Electrical Eng. Dept.

M.R. Satam
Tested by

M.R. Satam
For Principal & Secretary

VEERMATA JIJABAI TECHNOLOGICAL INSTITUTE**(VJTI)****[Central Technological Institute, Maharashtra State]
MATUNGA, MUMBAI - 400 019.**

Sr. No.	Para Of tender enquiries Specifications	Compliance To Specifications of the Item Offered	Remarks and Results
15	Static switch (Bi-directional)	Should be provided and should take care of 100% load transfer	Complied
16	Load power factor	0.7 lag.	Complied
17	Overload capacity	125% overload for 1 minutes, 150% overload for 30 Secs.	Complied
18	Isolation.	Isolation of power, Input should have MCB and Output should be electronically protected. Also battery connection to have MCB/ MCCB/ Fuse & Manual Service Bypass Required for > 5 KVA onwards and for 1 to 3 KVA Optional Item.	Complied
19	Total Harmonic Distortion	< 3% for 100% Linear Load < 5% for 100% non Linear load	Complied

The above results are valid only for the sample tested.


Incharge of testing
Electrical Eng. Dept.


Tested by



For Principal & Secretary