

Compliance Sheet (UPS 15 KVA)

Technical Specifications for UPS 15 KVA:

Clause No.	Feature	Description	Compliance (Yes/No/Comply as Noted)	Notes	Reference Page in Bid (Please Highlight Paragraph in Bid and Mention Clause No.)
1	Power Rating	15 KVA			
2	Topology	True On-line, double conversion			
3	Type	<u>Tower</u> with <u>castors</u>			
4	Phase In / Out	3- Phase			
5	Input & Output wiring	3 phase + N + PE			
6	Input Voltage tolerance	400VAC ± 20%			
7	Input Frequency Tolerance	45-55 Hz			
8	(THDi) – Input Voltage	<3%			
9	Nominal output voltage	400 VAC (230/400) (220/380 240/415 user selectable) ± 1%			
10	Nominal output frequency	50 Hz ± 1%			
11	Output Power Factor	1			
12	Total Harmonic Distortion (THD) – Output Voltage	<3% Non-linear load/ <1% Linear load			
13	Battery	Valve Regulated Lead Acid (VRLA) Battery			

Clause No.	Feature	Description	Compliance (Yes/No/Comply as Noted)	Notes	Reference Page in Bid (Please Highlight Paragraph in Bid and Mention Clause No.)
14	Backup time	Min 30 minutes @ 15 Kw load at 1.7V/cell F.V At 25C			
15	Battery lifetime	Min 10 years			
16	Inverter Overload capacity	125% for 10 minute & 150% for 1 minute			
17	Display	Wide LCD display with LED indicator provides monitoring, measurements information, showing Battery backup time & history and event logs , showing the general status of UPS and controlling UPS setting			
18	Interfaces & Communications	1 serial port interface, RJ45 Ethernet port static IP ADDRESS support SNMP, SMTP, HTTP (SNMP Card)			
19	Configuration	Can work on parallel/capacity/standby modes			
20	Monitoring system	Can be monitored , control remotely by a software with full features (web based with admin/user privileges)			
21	Alarm systems	MUST send alarms (email) ability to monitor the status by web.			
22	Standards- Performance	VFI-SS-111 / IEC EN 62040-1 & 62040-2 & 62040-3			
23	Efficiency	Min 95% @ 100% load			
24	Operating temperature	0 – 40 °C			
25	Warranty	3 years			

Compliance Sheet (UPS 20 KVA)

Technical Specifications for UPS 20 KVA:

Clause No.	Feature	Description	Compliance (Yes/No/Comply as Noted)	Notes	Reference Page in Bid (Please Highlight Paragraph in Bid and Mention Clause No.)
1	Power Rating	20 KVA			
2	Topology	True On-line, double conversion			
3	Type	<u>Tower</u> with <u>castors</u>			
4	Phase In / Out	3- Phase			
5	Input & Output wiring	3 phase + N + PE			
6	Input Voltage tolerance	400VAC \pm 20%			
7	Input Frequency Tolerance	45-55 Hz			
8	(THDi) – Input Voltage	<3%			
9	Nominal output voltage	400 VAC (230/400) (220/380 240/415 user selectable) \pm 1%			
10	Nominal output frequency	50 Hz \pm 1%			
11	Output Power Factor	1			
12	Total Harmonic Distortion (THD) – Output Voltage	<3% Non-linear load/ <1% Linear load			
13	Battery	Valve Regulated Lead Acid (VRLA) Battery			

Clause No.	Feature	Description	Compliance (Yes/No/Comply as Noted)	Notes	Reference Page in Bid (Please Highlight Paragraph in Bid and Mention Clause No.)
14	Backup time	Min 30 minutes @ 20 Kw load at 1.7V/cell F.V At 25C			
15	Battery lifetime	Min 10 years			
16	Inverter Overload capacity	125% for 10 minute & 150% for 1 minute			
17	Display	Wide LCD display with LED indicator provides monitoring, measurements information, showing Battery backup time & history and event logs , showing the general status of UPS and controlling UPS setting			
18	Interfaces & Communications	1 serial port interface, RJ45 Ethernet port static IP ADDRESS support SNMP, SMTP, HTTP (SNMP Card)			
19	Configuration	Can work on parallel/capacity/standby modes			
20	Monitoring system	Can be monitored , control remotely by a software with full features (web based with admin/user privileges)			
21	Alarm systems	MUST send alarms (email) ability to monitor the status by web.			
22	Standards- Performance	VFI-SS-111 / IEC EN 62040-1 & 62040-2 & 62040-3			
23	Efficiency	Min 95% @ 100% load			
24	Operating temperature	0 – 40 °C			
25	Warranty	3 years			

Compliance Sheet (UPS 30 KVA)

Technical Specifications for UPS 30 KVA:

Clause No.	Feature	Description	Compliance (Yes/No/Comply as Noted)	Notes	Reference Page in Bid (Please Highlight Paragraph in Bid and Mention Clause No.)
1	Power Rating	30 KVA			
2	Topology	True On-line, double conversion			
3	Type	<u>Tower</u> with <u>castors</u>			
4	Phase In / Out	3- Phase			
5	Input & Output wiring	3 phase + N + PE			
6	Input Voltage tolerance	400VAC \pm 20%			
7	Input Frequency Tolerance	45-55 Hz			
8	(THDi) – Input Voltage	<3%			
9	Nominal output voltage	400 VAC (230/400) (220/380 240/415 user selectable) \pm 1%			
10	Nominal output frequency	50 Hz \pm 1%			
11	Output Power Factor	1			
12	Total Harmonic Distortion (THD) – Output Voltage	<3% Non-linear load/ <1% Linear load			
13	Battery	Valve Regulated Lead Acid (VRLA) Battery			

Clause No.	Feature	Description	Compliance (Yes/No/Comply as Noted)	Notes	Reference Page in Bid (Please Highlight Paragraph in Bid and Mention Clause No.)
14	Backup time	Min 30 minutes @ 30 Kw load at 1.7V/cell F.V At 25C			
15	Battery lifetime	Min 10 years			
16	Inverter Overload capacity	125% for 10 minute & 150% for 1 minute			
17	Display	Wide LCD display with LED indicator provides monitoring, measurements information, showing Battery backup time & history and event logs , showing the general status of UPS and controlling UPS setting			
18	Interfaces & Communications	1 serial port interface, RJ45 Ethernet port static IP ADDRESS support SNMP, SMTP, HTTP (SNMP Card)			
19	Configuration	Can work on parallel/capacity/standby modes			
20	Monitoring system	Can be monitored , control remotely by a software with full features (web based with admin/user privileges)			
21	Alarm systems	MUST send alarms (email) ability to monitor the status by web.			
22	Standards- Performance	VFI-SS-111 / IEC EN 62040-1 & 62040-2 & 62040-3			
23	Efficiency	Min 95% @ 100% load			
24	Operating temperature	0 – 40 °C			
25	Warranty	3 years			

Compliance Sheet (UPS 40 KVA)

Technical Specifications for UPS 40 KVA:

Clause No.	Feature	Description	Compliance (Yes/No/Comply as Noted)	Notes	Reference Page in Bid (Please Highlight Paragraph in Bid and Mention Clause No.)
1	Power Rating	40 KVA			
2	Topology	True On-line, double conversion			
3	Type	<u>Tower</u> with <u>castors</u>			
4	Phase In / Out	3- Phase			
5	Input & Output wiring	3 phase + N + PE			
6	Input Voltage tolerance	400VAC \pm 20%			
7	Input Frequency Tolerance	45-55 Hz			
8	(THDi) – Input Voltage	<3%			
9	Nominal output voltage	400 VAC (230/400) (220/380 240/415 user selectable) \pm 1%			
10	Nominal output frequency	50 Hz \pm 1%			
11	Output Power Factor	1			
12	Total Harmonic Distortion (THD) – Output Voltage	<3% Non-linear load/ <1% Linear load			
13	Battery	Valve Regulated Lead Acid (VRLA) Battery			

Clause No.	Feature	Description	Compliance (Yes/No/Comply as Noted)	Notes	Reference Page in Bid (Please Highlight Paragraph in Bid and Mention Clause No.)
14	Backup time	Min 30 minutes @ 40 Kw load at 1.7V/cell F.V At 25C			
15	Battery lifetime	Min 10 years			
16	Inverter Overload capacity	125% for 10 minute & 150% for 1 minute			
17	Display	Wide LCD display with LED indicator provides monitoring, measurements information, showing Battery backup time & history and event logs , showing the general status of UPS and controlling UPS setting			
18	Interfaces & Communications	1 serial port interface, RJ45 Ethernet port static IP ADDRESS support SNMP, SMTP, HTTP (SNMP Card)			
19	Configuration	Can work on parallel/capacity/standby modes			
20	Monitoring system	Can be monitored , control remotely by a software with full features (web based with admin/user privileges)			
21	Alarm systems	MUST send alarms (email) ability to monitor the status by web.			
22	Standards- Performance	VFI-SS-111 / IEC EN 62040-1 & 62040-2 & 62040-3			
23	Efficiency	Min 95% @ 100% load			
24	Operating temperature	0 – 40 °C			
25	Warranty	3 years			

Compliance Sheet (UPS 60 KVA)

Technical Specifications for UPS 60 KVA:

Clause No.	Feature	Description	Compliance (Yes/No/Comply as Noted)	Notes	Reference Page in Bid (Please Highlight Paragraph in Bid and Mention Clause No.)
1	Power Rating	60 KVA			
2	Topology	True On-line, double conversion			
3	Type	<u>Tower</u> with <u>castors</u>			
4	Phase In / Out	3- Phase			
5	Input & Output wiring	3 phase + N + PE			
6	Input Voltage tolerance	400VAC \pm 20%			
7	Input Frequency Tolerance	45-55 Hz			
8	(THDi) – Input Voltage	<3%			
9	Nominal output voltage	400 VAC (230/400) (220/380 240/415 user selectable) \pm 1%			
10	Nominal output frequency	50 Hz \pm 1%			
11	Output Power Factor	1			
12	Total Harmonic Distortion (THD) – Output Voltage	<3% Non-linear load/ <1% Linear load			
13	Battery	Valve Regulated Lead Acid (VRLA) Battery			

Clause No.	Feature	Description	Compliance (Yes/No/Comply as Noted)	Notes	Reference Page in Bid (Please Highlight Paragraph in Bid and Mention Clause No.)
14	Backup time	Min 30 minutes @ 60 Kw load at 1.7V/cell F.V At 25C			
15	Battery lifetime	Min 10 years			
16	Inverter Overload capacity	125% for 10 minute & 150% for 1 minute			
17	Display	Wide LCD display with LED indicator provides monitoring, measurements information, showing Battery backup time & history and event logs , showing the general status of UPS and controlling UPS setting			
18	Interfaces & Communications	1 serial port interface, RJ45 Ethernet port static IP ADDRESS support SNMP, SMTP, HTTP (SNMP Card)			
19	Configuration	Can work on parallel/capacity/standby modes			
20	Monitoring system	Can be monitored , control remotely by a software with full features (web based with admin/user privileges)			
21	Alarm systems	MUST send alarms (email) ability to monitor the status by web.			
22	Standards- Performance	VFI-SS-111 / IEC EN 62040-1 & 62040-2 & 62040-3			
23	Efficiency	Min 95% @ 100% load			
24	Operating temperature	0 – 40 °C			
25	Warranty	3 years			