MICC BATA SHEET FOR AC UPS

		General Data	
dor's Na	ame:	Average Ambient Temperature (Min/Max)	0 °c / 52 °c
No.(s):		Max.Design Temperature:	+40 °c
	nent.(s):	Max. Sun Temperature:	+ 75 °c 90% 1500 meter
& Batter	y Spec. Doc. No.:	Max.Relative Humidity:	
sizing	Doc. No.:	Mean Sea Level:	
		Technical Data	
	General	Required	Vendor Data
1	Applicable Code & Standard	IEC 62040,IPS-M-EL-176(2)	
2	Electromagnetic Compatibility	As per IEC 62040-2	
3	Service	Control rooms requirement	
4	Rated input	3phase,400 v ± 10%,50Hz ± 5%	
5	Rated out put	110 V AC ± 1%	
6	Rated Power	10 KVA	
7	Country of Origin	By Vendor	
8	Cold Start Facility	Required	
9	No. of UPS	☑Single □Double	
	Mecl	hanical Characteristic	
10	Noise Level (in accordance with ISO 7779)The sound pressure level measured at 1 m (39 in)	□ < 55 dBA	
-	distance from the UPS	LNOSUBA LNOSUBA	
ní i	Permissive Max. Temp.Rise	By Vendor	
12	Enclosure Construction	Sheet steel with min.thickness 1.5 mm	
13	degree of protection in accordance with IEC 60529	□IP21 □IP31 ☑IP42	
14	Type of Cooling	□Natural	
15	Dimension	MINIMUM SIZE	
16	Weight	MINIMUM WEIGHT	
17	Panel mounting	☑ Floor mounted ☐ Wall mounted	
18	Access	☑ Front access □ Rear access	
19	MTBF (at 20 °C (68 °F))	□≥90,000 Hr	
20	MTTR	✓s1 Hr □s2 Hr □s4 Hr	
21	Finish Color	RAL 7032	
	Lo	ad Characteristics	
22	Load consumption	10 KVA 8 KW	
23	Load description	Instrument,PLC,DCS,Work Stations,	
CONT.		Printers	
24	Rated Current	By Vendor	
25	Power Factor Range	0.7-1 Lag & Lead	
26	Grounding System	Solidly	
		AC INPUT	
7	Voltage & Variation	□380V ☑400V □440V±15%	
4	AND RECEIVED AND RESERVED TO THE PERSON OF T	3 phase, 4 wire	
28	Frequency & Variation	☑50 Hz ± 5 % □60 Hz ± 5 %	
29	Grounding System	Solidly	
30	Short Circuit Current on System	50 KA, 1 Sec	
31	Short Circuit Capability	> 200 %	
32	Rated Input Current	By Vendor	
33	THDi for Input Current	□< 5% ☑<10% □<15%	
34	Input Power Factor (Lag)	□>0,7 □>0.8 ⊡>0.85 □>0.9	
		Charger	
35	Rated Current (A)	By Vendor	
36	Rated Input Voltage	□380V □440V □440V ± 15% 3 phase 4 wire	
37	Rated output Voltage	DIESIGNED BY VENDOR	
38	No. Of Charger	□1 Set(100%)	
39	Type of Rectifier	Constant voltage current limiting static type thyristor controlled Rectifier(6 Pulses)	

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41	Voltage Regulation	± 1%	
44	Allowable Voltage Range	By Vendor	
45	Normal Float Charge Voltage	By Vendor	
46	Max Boost Charge Voltage	By Vendor	
47	Efficiency	By Vendor	
48	Maximum Heat Dissipation	By Vendor	
		Battery	
49	Type of Batteries (IEC60623)	industrial Nickel-cadmium	
50			
51	Capacity of battery bank (AH) Backup Time	By Vendor ☑30min □1hr □2hr	
52	Country of Origin/Company		
53	Date of Manufacture	Europe, Japan, Korea By Vendor	
54			
55	No's Of Battery Cells For Each Bank	By Vendor -	
56	Battery house	By Vendor ☐ Cabinet ☑ Rack	
57	Type of Battery rack/cabinet		
58	No's. Of Battery Bank (100%)	Wooden or plastic /epoxy coated steel	
59	Re-charging time to 90% Rated Capacity	☑1 Set □2 Set Half Rated	
60		5 Hours	
QU	Battery nominal Voltage per cell	1.2V	AND DESCRIPTION OF THE PARTY OF
61	Battery final voltage per cell	□1V/Cell □1,05V/Cell □1.1V/Cell ☑1.14V/cell	
		Inverter	
2	Power Rating	10 KVA	
62	Output Voltage	☑110Vac □230Vac	
63	Output Voltage	☑Single Phase ☐3 Phase	
64	Output Voltage Regulation	± 1% in steady state	15 17 16 18 18 18
DE.	Output Voltage Unbalance(At 100%	- 004	
65	Unbalanced Load)	< 2%	
66	Output Frequency & Variation	☑ 50 Hz ± 1% ☐60 Hz ± 1%	
67	Output Frequency Regulation	± 1% in steady state	
68	Maximum V. Harmonic Distortions (THD%)	Max. 5%(for linear & nonlinear loads)	
69	Rated Output Current (Amp)	By Vendor	
70	No. of Inverter (100%)	□1 Set □2 Set (Parallel) □3 Set □4 Set	
71	Type Of Inverter (True Online Double Conversion Technology and pure Sine Wave	IGBT Technology	
72	Galvanic Isolation (Input / Output)	Required	William Section 200
73	Fast Fuse Protection For IGBT Bridge	Required	
74	Max. Allowable Current	By Vendor	
75	Efficiency (Min)	> 90 %	
76	Maximum Heat Dissipation	By Vendor	100000000000000000000000000000000000000
77	Type of Frequency Synchronizer	By Vendor	
78	Crest Factor	Plantage Block and the second	
, 0		Min 3:1	SAMPLEMENT SERVED AND AND AND AND AND AND AND AND AND AN
70		Isolating Transformer	
79 80	Input / output voltage	Double wound dry type air cooled Input: □380Vac ☑400Vac □440Vac Output: ☑110Vac □230Vac f=50Hz	
81	Bypass transformer KVA rating	10 KVA	The state of the state of
82	Short Circuit Impedance	Less than 4%	
83	Stabilizer (Servo Control With Galvanic	☑Not Required	
84	Isolation)	Required	
85	Stabilizer Short Circuit Capacity		
STATE OF THE PARTY	Stabilizer Static output voltage tolerance		
86	Stabilizer Short Circuit Impedance		elentro de servicio
87	Stabilizer Phase shift from input to output		
		r/ Mains Static Switch	
88	Inverter Switch Type	☑Thyristor (S.C.R) □Other	
89	Inverter Rated Current (Continuous)	☑≥105% Of Rated Output Current of UPS □≥200% Of Rated Output	

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90	Inverter Over Load Capability on Static Switch	>200 % For 100ms >150 % For 1Min >125 % For 10Min	
91	Transfer the inverter output voltage	below 90% of the nominal output voltage exceeds 110% of the nominal output voltage	
92	Re-transfer of the load from the static bypass to the inverter	The inverter output voltage is within ± 5% of the nominal output voltage for more than 3 seconds.	
93	Inverter/Mains Switching Transfer Time(ms)	1/5 Period Of a Cycle	
94	Mains Switch Type	☑Thyristor (S.C.R) □Other	
95	Mains Rated Current (Continuous)	200% Of Rated Output Current of UPS	
96	Mains Over Load Capability on Static Switch	>1000 % For 100ms >150 % For 1Min >125 % For 10Min	
97	Fast Fuse Protection For Mains Static Switch	Required	
98	Electronic Change Over Between Manis and inverter	Manual /Automatic	
99	All UPS units shall comply with the requirements for EMC as defined in IEC 62040-2	By Vendor	
100	An earth bar, with a suitable number of earthing bolts or screws, shall be provided.	By Vendor	
	Man	ual Bypass Switch	
101	Rated Current	110% Rated output current of UPS	"我们就是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个
102	Maintenance Bypass (Make Before Beak)	Required	
103	Over Load Capability	> 1000 % For 100ms	
104	Allowable Over Current (1 Sec)	By Vendor	
# SER 6		Distribution Board	
105	Protection Degree	IP31	
106	Feeder quantity	By Vendor	
107	Incoming type (IEC 60947)	MCCB,(Shall be finalized by vendor)	Stolin Lyther Russell Stolin LAW
107	A STATE OF THE PARTY OF THE PAR		
108	Access	sories And Protection	Saltista presidente
109	Incoming Cable	NOTE	
110	Cable Type	NOT Required	Carlo de la companya
111	Earth Bar	NOT Required NOT Required	
112	Cable Entry and Accessories	NOT Required	
113			
110	Current Limiting Device Setting	NOT Required Alarms	
70000			
14	· · · · · · · · · · · · · · · · · · ·	☑ AC input supply failure	
115		☑ Rectifier failure	
116	A SECURITY OF THE SECURITY ASSESSMENT OF THE SECURITY OF THE S	☑ DC voltage low/high	SERVICE DESCRIPTION
117		☑ DC earth fault	
119		☑ Battery discharging	
120		☑ Battery disconnected	
121		 ☑ Inverter failure ☑ Inverter over loaded 	
		☑ Inverter over loaded	
	THE RESERVE THE PROPERTY OF TH	[7] Investor evertementative	
122		☑ Inverter over temperature	
		 ✓ Inverter over temperature ✓ AC output voltage low/high ✓ Output frequency low/high 	

		Metering Device	
126	The second secon	☑ DC/AC Ammeter	
127		☑ DC/AC Voltmeter	
128		☑ Bypass/inverter/Load Frequency Meter	er
129	Remote Signals	Required	
130	Serial Communication Capability	☑ RS 232 □ RS 485	
131	Fixing Bolt & nuts	Required	
132	Lifting lug	Required	
133	On load break switch-fuse For Batteries	Required	SECTION SECTION SERVICES
100			
		all be performed By the Vendor)	
134	Visual Inspection & Dimensional Check	Required	
135	Performance and Function Test	Required	
136	Sequence, Operation and Logic Test	Required	
137	Dielectric Strength Test	Required	
138	Output Voltage Wave Form and THD% Check	Required	
139	Charger Voltage Adjustment Test	Required	
140	Transfer Time Test	Required	
141	Output Regulation / Adjustments Test	Required	
142	Alarms Check	Required	
143	Autonomy Test	Required	
4	Overload /Short Circuit Test	Required	
145	Short Circuit test	Required	
Note1:	Other Tests shall be performed in Accordance	with IEC60146 & IEC62040-3	
Note2:	The Accuracy of all meters shall be better than	1.5%	
	Access	ories And Special Tools	
146	MIMIC Diagram With LED To Show Operation Condition	Required	is a large parameter and the second
147	Hardware and Software for Communication Programming or Setting the CPU or MPU	Required	
	Boards,		
148	Automatic battery test and failure alarm	Required	
149	Hot and Cold standby unlimited systems	Required	
150	IGBT technology	Required	
151	Low noise and heat rejection	Required	
152	The UPS shall be provided with a standard RS232 or RS485 connection facility. Where specified by the Principal, it shall be also possible to connect the UPS, via either a RS485 or fiber optic link to a DCS or SCADA system for selected analogue and digital data to be made available to a higher level controller. The communication shall function utilizing standard MODBUS protocol (master/slave).	By Vendor	
SNMP	Interface for remote monitoring and control via PC	Required	
РВМ	Progress Battery Management(PBM) with temperature compensation	By Vendor	
АРМ	Advanced Power Management(APM) - automated auto start of systems connected as a single system(APM) with an increase in load. Any combination of parallel, hot or cold standby	By Vendor	
EPO	Emergency power off	Required	
ontrol board	spare control board spare part	Required	
ower board	power supply borad and mosfet or ight driver board	Required	
other board	other board	Required	
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power ight	power lgbt for inverter	Required	
module	control and inverter and static switch module	Required	