

Category Level 1:Power Generation and Distribution Machinery and Accessories,UNSPSC Code:26

Category Level 2:Batteries and generators and kinetic power transmission,UNSPSC Code:2611

Category Level 3: Batteries and cells and accessories,UNSPSC Code:261117

Category Level 4:Float Cum Boost Charger(Battery Chargers),UNSPSC Code:26111704

S.No.	Parameters	Field Type	Field Category	Value 1	Value 2	Value 3	Value 4
1	GROUP: GENERIC						
2	Flood cum boost charger (FCBC) type	Enumerable	Golden, Filter, Mandatory	SMPS based	Thyrister based		
3	Hot stand by module for redudancy	Enumerable	Golden, Filter, Mandatory	Yes	No		
4	FCBC suitable for charging of	Enumerable	Golden, Filter, Mandatory	Lead Acid SMF VRLA type	Lead acid-Plante type	Lead acid - tubular battery	Nic-cd
5	Installation	Enumerable	Golden, Filter, Mandatory	Yes	No		
6	Warranty (In Years)	Enumerable	Golden, Filter, Mandatory	1	2	3	
7	GROUP: INPUT						
8	Voltage	Enumerable	Golden, Filter, Mandatory	230 V +/-10%, 1 Phase AC	415 V +/-10% 3 Phase AC		
9	Frequency	Enumerable	Mandatory	50 Hz +/-5%			
10	Power factor (50% load to 100% load) Maximum	Enumerable	Golden, Filter, Mandatory	0.98	0.8	0.75	0.9
11	Efficiency (in %age)	Enumerable	Golden, Filter, Mandatory	>= 90	> / = 85		
12	Dielectric Strength	Enumerable	Mandatory	1.5 KV AC (I/P to O/P & Case)			
13	GROUP: OUTPUT						
14	Nominal voltage	Enumerable	Golden, Filter, Mandatory	24 V DC	48 V DC	110V	220V
15	Output rating	Enumerable	Golden, Filter, Mandatory	25 A, 30 A, 40 A, 50 A, 80 A, 100 A, 200 A			
16	Net Regulation	Enumerable	Golden, Filter, Mandatory	plus/minus 1%	plus/minus 2%		
17	Ripple factor	Enumerable	Mandatory	</=1%			
18	Audible Noise	Enumerable	Golden, Filter, Mandatory	< 50 dB	< 60 dB	<75 dB	
19	Battery Current Limit	Enumerable	Mandatory	0.1 Ah of battery (for VRLA)	0.2 Ah for Plante, tubular	0.14 Ah for Ni-cd	

20	GROUP: PROTECTION						
21	AC input circuit breaker	Enumerable	Mandatory	Yes			
22	DC output circuit breaker	Enumerable	Mandatory	Yes			
23	DC over voltage protection	Enumerable	Mandatory	Yes			
24	Battery input fuses	Enumerable	Mandatory	Yes			
25	Charger over load	Enumerable	Mandatory	Yes			
26	Battery charging current limit	Enumerable	Mandatory	Yes			
27	Short circuit protection	Enumerable	Mandatory	Yes			
28	Enclosure protection	Enumerable	Golden,Mandatory	IP 20	IP 54	IP 42	
29	GROUP: CONSTRUCTION						
30	FCBC shall be modular system, easy for maintenance and for upgradable Hot plug in modules	Enumerable	Golden, Filter, Mandatory	Yes for SMPS based FCBC	NA for Thrister		
31	Cabinet Material	Enumerable	Golden, Filter, Mandatory	CRC Sheet, duly Powder coated Case,			
32	Active Current Sharing facility	Enumerable	Golden, Filter, Mandatory	Yes,Provided for Redudancy sys	NA for non redudancy system		
33	Potential Free Contacts for Remote Fault Annunciation	Enumerable	Mandatory	Yes	No		
34	Input high voltage disconnect	Enumerable	Mandatory	Yes.			
35	Battery Low Voltage Disconnect	Enumerable	Mandatory	Yes,Provided			
36	Display	Enumerable	Golden, Filter, Mandatory	Analog	Digital		
37	Common O/P Voltage Controller	Enumerable	Mandatory	Yes,Provided			
38	Charging Capacity	Enumerable	Mandatory	To charge two banks simultaneously			
39	Battery Current Limiting for each battery path (Presentable to suit battery simultaneously)	Enumerable	Mandatory	Yes			
40	GROUP: ENVIRONMENT						
41	Operating Temperature	Enumerable	Golden, Filter, Mandatory	0°C to 50° C	minus 5 to 50		
42	Storage Temperature	Enumerable	Mandatory	-10° C to +70° C			
43	Cooling type	Enumerable	Golden, Filter, Mandatory	Convection	Natural cooling		

44	Humidity	Enumerable	Mandatory	< 95%			
45	GROUP:FEATURES						
46	FCBC should work in hot standby in 1+1 configuration	Enumerable	Golden, Filter, Mandatory	Yes	NA for non redudancy		
47	In case of failure of any component on one FCBC, the auto switchover of load to second FCBC should take place.	Enumerable	Golden, Filter, Mandatory	Yes for redudancy type	NA for non redudancy		
48	GROUP:ALARM/INDICATIONS						
49	In Case of battery bank voltage dropping below some threshold level, audible alarm should be sounded	Enumerable	Mandatory	Yes			
50	Input on	Enumerable	Mandatory	Yes			
51	Charger On Float, Charger On Boost	Enumerable	Mandatory	Yes			
52	DC Over Voltage	Enumerable	Mandatory	Yes			
53	DC under Voltage	Enumerable	Mandatory	Yes			
54	AC Supply fail	Enumerable	Mandatory	Yes			
55	Charger Fail	Enumerable	Mandatory	Yes			
56	Rectifier fuse fail	Enumerable	Golden, Filter, Mandatory	Yes for thyrister type	NA for SMPS based		
57	DC/Battery Earth Fault	Enumerable	Mandatory	Yes			
58	Battery Fuse Blown/Battery Isolated	Enumerable	Mandatory	Yes			
59	Load on battery	Enumerable	Mandatory	Yes			
60	Battery Discharging	Enumerable	Mandatory	Yes			
61	Indication through either bright leds or multi point facia facility	Enumerable	Mandatory	Yes			
62	The audible alarm should be sounded for failure of any one of FCBC or its components	Enumerable	Mandatory	Yes			
63	GROUP: CERTIFICATIONS						

64	Availability of type test report from Central Govt., lab/NABL/ILAC accredited lab to conformity of the specification	Enumerable	Mandatory	Yes			
65	Test report number - Must declare	Text	Mandatory				
66	Test report date - Must declare	Text	Mandatory				
67	Name of lab - Must declare	Text	Mandatory				
68	Address of lab - Must declare	Text	Mandatory				
69	All the test reports and certificates shall furnish by the seller to purchase authority on demand	Enumerable	Mandatory	Yes			