

Level 1 Category : :UNSPSC Code: Laboratory and Measuring and Observing and Testing Equipment

Level 2 Category : :UNSPSC Code: Measuring and observing and testing instruments

Level 3 Category : :UNSPSC Code: Electrical measuring and testing equipment and accessories

Level 4 Category : AC Static Transformer Operated Watthour and VAR-hour Meter : UNSPSC Code: 41113659

S.No.	Parameters	Field type	Fiedl category	Value 1	Value 2	Value 3	Value 4	Value 5	Value 6
1	<b>GROUP:GENERIC</b>								
2	AC static transformer operated wathour and VAR-hour meters conforming to	Enumerable	Mandatory	IS 14697 : 1999 latest					
3	ISI Marked	Enumerable	Mandatory	Yes					
4	BIS License number - Must declare	Text	Mandatory						
5	Type	Enumerable	Golden,Filter, Mandatory	3 Phase 4 wire	3 Phase 3 wire	1 Phase 2 wire			
6	Accuracy class	Enumerable	Golden,Filter, Mandatory	0.2 S	0.5 S	1.0 S			
7	Type of load	Enumerable	Golden,Filter, Mandatory	Balanced	Unbalanced	Balanced and Unbalanced			
8	Standard reference voltages for connection through voltage transformer as per table 1 of IS 14697 : 1999 latest	Enumerable	Golden,Filter, Mandatory	57.7 (100)	63.5 (110)	100 (173)			
9	Standard reference voltages for connection through current transformer as per table 1 IS 14697 : 1999 latest	Enumerable	Golden,Filter, Mandatory	230 (400)	240 (415)	220 (380)	250 (433)		
10	Frequency	Enumerable	Mandatory	50 Hz (+/- 5%)					
11	Standard basic current as per Cl. 5.2 of IS 14697 : 1999 latest	Enumerable	Golden,Filter, Mandatory	1 A	5 A				

12	Rated Maximum Current as per Cl. 5.3 of IS 14697 : 1999 latest	Enumerable	Golden,Filter, Mandatory	1.2A	1.5A	2A	6A	7.5A	10A
13	The enclosure on the front of the meter	Enumerable	Golden,Filter, Mandatory	Transparent material	Opaque material				
14	Non Volatile Memory (NVM) as per Cl. 3.2.4 of IS:14697:1999 latest	Enumerable	Mandatory	Yes					
15	Enclosure material	Enumerable	Golden,Filter, Mandatory	Polycarbonate	Metallic enclosure				
16	Warranty (in Years)	Enumerable	Golden,Filter, Mandatory	2	3	4	5		
17	<b>GROUP: CONSTRUCTIONAL</b>								
18	General and constructional requirements as per Cl.6 of IS:14697:1999 latest	Enumerable	Mandatory	Yes					
19	Resistance to heat and fire shall comply as per Cl.6.8 of IS:14967:1999 latest	Enumerable	Mandatory	Yes					
20	Enclosure Protection Against Penetration of Dust and Water (as per IS/IEC:60529:2001 latest)	Enumerable	Mandatory	IP 51					
21	Display	Enumerable	Mandatory	LCD					
22	Operating temperature range	Enumerable	Mandatory	-10°C to + 55°C					
23	Limit range of operation	Enumerable	Golden,Filter, Mandatory	- 25°C to + 60°C					
24	Limit range for storage and transport	Enumerable	Mandatory	- 25°C to + 70°C					
25	<b>GROUP: ADDITIONAL REQUIREMENTS</b>								

26	Additional requirements as per		Mandatory	Annexure G of IS 14697 : 1999 latest					
27	Meter shall have optical port	Enumerable	Mandatory	Yes					
28	Meter shall have RS232 port	Enumerable	Mandatory	Yes					
29	Necessary software for downloading the data through CMRI	Enumerable	Mandatory	Yes Provided					
30	Quantities to be measured and displayed	Enumerable	Mandatory	as per Cl.G-2 of IS: 14697 : 1999					
31	The meter shall have facilities for making the registration, taking in to account CT and VT ratios	Enumerable	Mandatory	as per Cl.G-3 of IS: 14697 : 1999					
32	MD resetting options (as per Annexure-G, Cl.G-4 of IS: 14697 : 1999 latest)	Enumerable	Golden,Filter, Mandatory	Automatic reset	Resetting through a common hand held unit	Manual resetting arrangement with sealing facility			
33	Maxmimu demand integration period (DIP)	Enumerable	Mandatory	as per Cl.G-5 of IS: 14697 :					
34	Display of maximum demand	Enumerable	Mandatory	as per Cl.G-6 of IS: 14697 :					
35	Time of day (TOD) register	Enumerable	Mandatory	as per Cl.G-8 of IS: 14697 : 1999					
36	Meter shall have communication capability	Enumerable	Mandatory	as per Cl.G-9 of IS: 14697 : 1999					

37	The meter shall have the special features of recording occurrences of abnormalities in order to monitor and to detect tamper and fraud against meter	Enumerable	Mandatory	as per Cl.G-10 of IS: 14697 : 1999					
38	Display parameters facility	Enumerable	Mandatory	as per Cl.G-11 of IS: 14697 : 1999					
39	Load survey capability	Enumerable	Mandatory	as per Cl.G-12 of IS: 14697 : 1999					
40	The display for kWh, kVarh and kVAh shall have facility for high resolution display	Enumerable	Mandatory	as per Cl.G-13 of IS: 14697 : 2000					
41	In the absence of power supply, facility for display or meter reading shall be available	Enumerable	Mandatory	Yes					
42	While installing the meter, it should be possible to check the correctness of connections of CT, VT to the meter with proper polarity etc.,	Enumerable	Mandatory	as per Cl.G-15 of IS: 14697 : 2000					
43	Other features as per Cl. G16, G17 and G18 of IS:14697:2000 latest	Enumerable	Mandatory	Yes					
44	Self diagnostic feature	Enumerable	Mandatory	as per Cl.G19 of IS:14697:2000 latest					
45	Measurement of Harmonic energy / Phase current	Enumerable	Mandatory	as per Cl.G20 of IS:14697:2000 latest					
46	<b>GROUP: CERTIFICATIONS</b>								
47	Availability of type test reports from any Central Govt. laboratory / ILAC approved laboratory / NABL approved laboratory	Enumerable	Mandatory	Yes					
48	Type Test Report Number	Text	Mandatory						

49	Type Test Report Date	Text	Mandatory						
50	Name of testing lab	Text	Mandatory						
51	Address of testing lab	Text	Mandatory						
52	All the test reports and certificates shall be furnished as and when requested to do so by Purchase authority	Enumerable	Mandatory	Yes					
53	Meter shall comply with CBIP-Publication No. 325 (with latest amendments)	Enumerable	Mandatory	Yes					





