

Specification of CTPT and ABT meter for Solar Developers:

CTPT:

As per CEA Regulations 2006, meter for energy accounting/open access purpose should be of .2S accuracy class. Therefore, CTPT of .2s class of accuracy is required.

Following are the specifications of CTPT:

**Specification of 11 KV CTPT**

<b>Sr. No</b>	<b>Particulars</b>	<b>Requirement for CT</b>	<b>Requirement for PT</b>
1	Type	Three single phase CT's Combined unit	One Three phase Star/Star PT
2	Class of accuracy	0.2S	0.2
3	Rated frequency	50 HZ	50 HZ
4	Rated primary current current in Amp	100	N.A
5	Rated primary voltage	N.A	11000 V (phase to phase)
6	Rated secondary voltage	N.A	110V/110V (phase to phase)
7	Rated burden	5 VA at 0.8 P.F (lag)	10 VA/phase at 0.8 P.F (lag)
8	Rated voltage factor	N.A	1.2 times continuous and 1.5 times for 30 seconds
9	Thermal rating ( SC Test)	A test of Minimum STC of 6.4 KA for 1 second must have been conducted on 10/5 Amp CTPT- a type test report in this regards should be submitted by supplier.	N.A
10	Current density at rated current (max)	1.5 Amp. sq.mm	N.A
11	Dynamic rating	2.5 times I <sub>th</sub>	N.A
12	One minute high voltage power frequency withstand voltage on primary winding	28 KV (rms) for 1 minute	28 KV (rms) for 1 minute

13	One minute high voltage power frequency withstand voltage on secondary winding	3 KV (Rms) for 1 minute	3 KV (Rms) for 1 minute
14	1.2/50 impulse withstand voltage	75 KV (Peak)	75 KV (Peak)
15	Class of insulation	A	A
16	Instrument security factor	5 or less than 5	N.A
17	Applicable standard	IS - 2705	IS - 3156

In addition to "Routine Test" and "Acceptance Test" at supplier's premises following additional test shall have to be ensured.

1. ISF Test
2. Over Voltage Inter Turn Test
3. Total Harmonic Distortion in 11 kV PT shall not be more than 2.0%

Testing at ERDA lab in respect of all acceptance tests as per above is including ISF and OVIT tests specified as above shall be carried out and submitted by developer.

Sealing and testing at our laboratory shall be carried out as we do in case of normal consumer.

**N.B:**The CTPT set shall have to be tested at ERDA or any other NABL accredited laboratory in presence of PGVCL Engineer. The test report of ERDA or any other NABL accredited shall be in your name.