

Nanocrystalline core for large power transformer

1、 Features

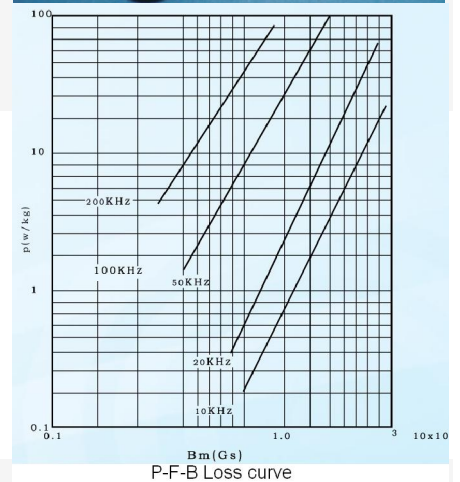
- ◇ High saturation magnetic Induction BS
- ◇ High permeability
- ◇ Low core loss——Reduce the transformer temperature rise
- ◇ Low remanence, high Curie point——excellent temperature stability, stable working at -50 ° C ~ 130 ° C


2、 Applications

- ◇ Inverter welding power source、 Communication equipment power supply
- ◇ Power supply for Charger, UPS power
- ◇ Power supplies for plating, laser , X-ray


3、 Core performance indicators

Bs(T)	$\geq 1.2T$
Br(T)	$\geq 0.15T$
Core loss P3/50K(50KHz,0.3T)	$\leq 30W/Kg$
Core loss P5/20K(20KHz,0.5T)	$\leq 25W/Kg$
Initial permeability μ_0 (Hm=0.08A/cm)	≥ 30000
Coercivity Hc (A/m)	< 2.0
Curie temperature Tc	570°C


4、 Dimension

TYPE	CORE SIZE (mm)			DIMENSION (mm)			Effective cross-sectional area (cm ²)	Magnetic path length (cm)	WEIGHT (g)	Applicable to power (KW) (@20KHz)
	ID	OD	Ht	ID	OD	Ht				
SR-I 406420	40	64	20	37	66	23	1.77	16.3	215	0.8—1.4
SR-I 407025	40	70	25	37	73	28	2.42	17.3	310	1.2—2.0
SR-I 507525	50	75	25	47	78	28	2.13	19.6	310	1.2—2.1
SR-I 508020	50	80	20	47	83	23	2.18	20.4	330	1.3—2.2
SR-I 508025	50	80	25	47	83	28	2.65	20.4	400	1.6—2.7
SR-I 408030	40	80	30	37	83	33	4.50	18.8	625	2.5—4.2
SR-I 409020	40	90	20	37	93	23	3.64	20.4	550	2.2—3.8
SR-I 509030	50	90	30	46	94	34	4.42	21.98	720	3.0—4.8
SR-I 5010025	50	100	25	46	104	29	4.63	23.55	810	3.5—5.2
SR-I 7012030	70	120	30	65	125	35	5.55	29.83	1225	5.8—8.0
SR-I 8012020	80	120	20	75	125	25	2.96	31.40	688	2.8—4.6

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SR-I 8012025	80	120	25	75	125	30	3.70	31.40	860	3.5—5.2
SR-I 8012030	80	120	30	75	125	35	4.44	31.40	1032	4.2—7.0
SR-I 9013030	90	130	30	85	136	35	4.44	34.54	1135	5.0—8.0
SR-I 9013050	90	130	50	85	136	55	7.20	34.54	1850	8—13
SR-10014040	100	140	40	94	146	45	5.76	37.68	1610	7.0—12.0