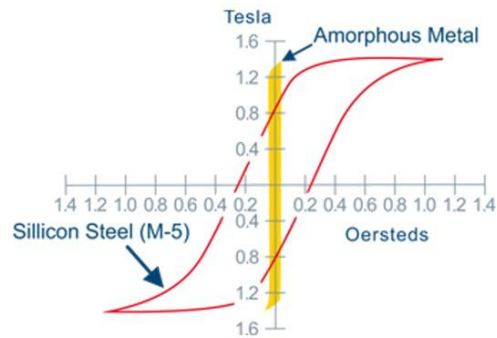


## Comparison of Magnetization Curves of Amorphous Magnetic Materials and Directional Silicon Steel Sheets

Comparing the magnetization characteristic curves of amorphous alloy and ordinary silicon steel sheet, the enclosed area enclosed by the curve in the figure represents the energy lost by the magnetic material in the form of heat in the alternating magnetic field cycle. It can be clearly seen from the figure that The closed area of amorphous alloy and silicon steel sheet is very different.

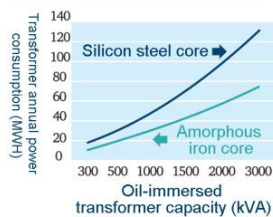
According to the measured data, the difference between the two can be as high as 70% to 80%. That is, when transformers use amorphous alloy material instead of silicon steel sheet as the core material, It can save 70% ~ 80% of no-load power loss.



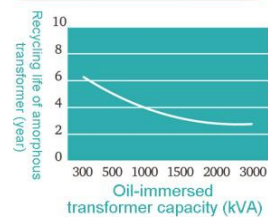
## Comparison of economic benefits Oil-immersed silicon steel sheet / Amorphous transformer

Capacity		1000kVA	
Core material		Silicon steel sheet	Amorphous
Iron loss (W)		2800	500
Load loss (W)		12940	12940
Total loss load (W)		15740	13440
Full load efficiency (%)		98.45	98.67
5.0% Load factor	Iron loss (W)	2800	500
	Load loss (W)	3235	3235
	Total loss (W)	6035	3735
	Efficiency (%)	98.8	99.26
	Annual power consumption (MWh)	52.8	32.7

Power consumption at 50% load rate



Power consumption at 50% load rate  
Payback period is based on transformer spread



## <High efficiency series>

### Amorphous oil-immersed transformers

#### 12 / 24kV performance list

Model: CL-AFH

Capacity (KVA)	No load loss (W)	Load loss (W)	Total loss (W)	Excitation current (%)	Efficiency (%)	Voltage regulation (%)	Impedance (%)	Noise (dB)
150	95	1775	1870	0.5	98.77	1.3	3~4	52
200	135	2085	2220	0.5	98.9	1.15	3~4	52
300	185	2965	3150	0.5	98.96	1.1	3~4	56
400	230	3810	4040	0.5	99.0	1.05	3~4	57
500	250	4750	5000	0.5	99.01	1.05	3~4	58
600	280	5590	5870	0.5	99.03	1.05	3.5~4.5	59
750	310	6880	7190	0.3	99.05	1.05	4~5	60
1000	380	9000	9380	0.3	99.07	1.05	4~5	62
1250	450	11150	11600	0.3	99.08	1.05	4.5~5.5	63
1500	530	12940	13470	0.3	99.11	1.05	5~6	63
2000	650	17100	17750	0.2	99.12	1.05	5~6	64
2500	740	20690	21430	0.2	99.15	1.0	5~6	65
3000	850	24560	25410	0.2	99.16	1.0	5~6	65

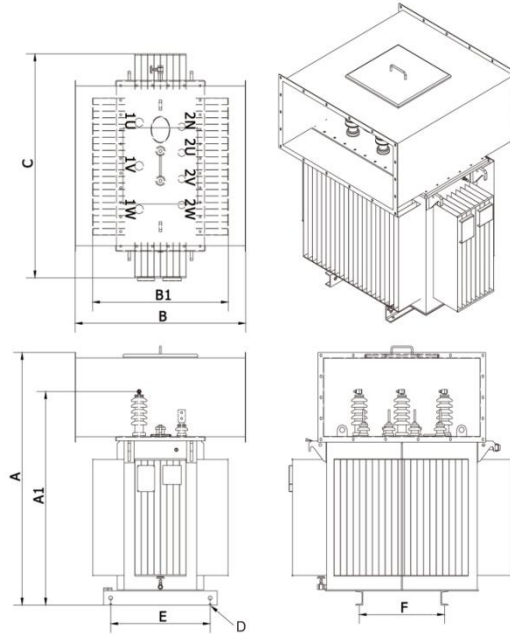
※ If you have special needs, please contact us.

# <High efficiency series>

## Amorphous oil immersed transformers

### size oil weight table

3 $\psi$ -60Hz-11.4/22.8kV



Model: CL-AFH

Capacity (KVA)	Duct Type				No Duct Type				Oil (L)	Basic Pitch (mm)		Bushing Diagram	
	Dimensions(mm)			Weight (kg)	Dimensions(mm)			Weight (kg)		E	F	HV	LV
	A	B	C		A1	B1	C						
150	1700	1150	1250	1300	1430	950	1250	1250	250	750	650		L300
200	1700	1150	1300	1420	1430	950	1300	1370	300	750	650		L800
300	1750	1250	1500	1800	1480	1050	1500	1750	500	900	650		L800
400	1750	1320	1550	2200	1480	1120	1500	2140	600	1000	650		L800
500	1800	1350	1600	2400	1530	1150	1600	2340	650	1000	650		L800
600	1850	1480	1700	2900	1580	1280	1700	2840	700	1050	650	H120	L1000
750	1900	1600	1750	3600	1630	1400	1750	3530	750	1200	800		L1250
1000	2020	1650	1800	3900	1750	1450	1800	3820	800	1250	800		L1500
1250	2040	1720	1900	4500	1770	1520	1900	4420	1000	1350	950		L2000
1500	2060	1750	2150	4900	1790	1550	2150	4810	1200	1350	950		L3000
2000	2200	1800	2250	6500	1930	1600	2250	6410	1500	1500	950		L4000
2500	2250	2000	2300	7600	2010	1800	2300	7500	1700	1650	950		L4000
3000	2300	2100	2350	8600	2060	1900	2350	8500	1900	1750	950	H300	L5000

# LEGALIZE • PATENT

 Green Mark



 Testing Laboratory 2531



High-voltage electricity approval registration certificate



ISO 14001  
UCS-E-13-006



OHSAS 18001  
13OMA10014



ISO 9001  
UCS-Q-09-703



Patent



Patent

