

LAMPIRAN

3. Nameplate Transformer PLTU Tanjung Jati

1-2204524
 1-2204524

TOSHIBA TRANSFORMER

RATED POWERS

HV 786 MVA
LV 786 MVA

RATED FREQUENCY
50 Hz

NUMBER OF PHASES
3

RATED VOLTAGES

HV 525 kV
LV 22.3 kV

RATED CURRENTS

HV 964 A
LV 19950 A

CONNECTION SYMBOL
Yd

IMPEDANCE VOLTAGES

AT 16.9%
22.3-325 kV
786 MVA

STANDARD
IEC 60076

TYPE OF COOLING
ODAF

TEMPERATURE RISES

WINDINGS 63 K
OIL 53 K

SERIAL NO.
C2009126

MANUFACTURED IN
2010 01

INSTRUCTION NO.
E-20002208

APPROXIMATE MASSES

TOTAL 460 t
TRANSPORTATION 360 t
CORE AND COILS 295 t
COOLER 15 t
MAIN-TANK OIL 83 m³
TYPE OF INSULATING OIL MINERAL

NO-VOLTAGE TAP-CHANGERS

INSULATION LEVEL (kV)			
TERMINALS	AC	LI	S1
1U 1V 1W	550	1550	1175
1N	36	95	—
2U 2V 2W	50	170	—

HV WINDING CONNECTIONS			
VOLTS (kV)	AMPS (A)	TAP PGS	CONNECTIONS
525 J	923	1	3-4
525 L	943	2	2-4
525 D	954	3	2-5
511 P	886	4	1-5
408.8	610	5	1-6

CT PRIMARY AND SECONDARY CURRENT (A)	WEIGHT (KG)	ACROBRY GLASS	LOSS FACTOR
2000/1	1300	3P	20
1000/1	1300	3P	20
3000/1	1300	3P	20
1000/1	1300	3P	20

TOSHIBA CORPORATION

T2204524
MADE IN CHINA

P.T. CENTRAL JAWA POWER ZAKUNG ANI W. COAL-FIRED POWER SYSTEM UNIT 3 SURABAYA TOSHIBA ENGINEERING CORPORATION 1-2204524	NAMEPLATE 3	
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4. Spesifikasi Generator PLTU Tanjung Jati B Jepra

TOSHIBA

SPC-GEH-XIT3-0013_Rev. 2

2. TECHNICAL DATA INFORMATION

2.1 Type	: Three phase, totally enclosed synchronous generator, direct coupled to turbine
2.2 Cooling Method	
(1) Stator Winding	: Direct water-cooled
(2) Stator Core	: Hydrogen-cooled
(3) Rotor Winding	: Direct hydrogen-cooled
2.3 Rated Characteristics	
(1) Active Power at rated H2 pressure	: 721.8 MW continuous
(2) Apparent Power at rated H2 pressure	: 802 MVA continuous
(3) Power Factor (Overexcited)	: 0.9 (lagging)
Power Factor (underexcited)	: 0.95 (leading)
(4) Rated Voltage	: 22.8 kV
(5) Rated Nominal Voltage Range	: 22.8 kV \pm 5% at rated apparent power, speed, and power factor
(6) Speed of Rotation	: 3000 rpm
(7) Frequency	: 50 Hz
(8) Number of Phases	: 3
(9) Coupling to turbine	: Direct
(10) Class of Insulation / temperature rise	
- Stator	: Class F / B
- Rotor	: Class F / B
(11) Rated Hydrogen Pressure	: 4.4 bar \cdot g
(12) Standard	: IEC 60034-1 (2004)
2.4 Excitation System	: Static excitation system with thyristor rectifier
(1) Excitation Voltage	: 550V DC
(2) Field Current	: 5110A DC

5. Acc Penguji

YAYASAN BADAN W **AGUNG**
UNIVERSITAS ISLAM SULTAN AGUNG (UNISSULA)
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Fakultas Teknologi Industri Bismillah Membangua Generasi Khaira Ummah

LEMBAR REVISI dan TUGAS UJIAN SARJANA

Berdasarkan Rapat Tim Penguji Ujian Sarjana

Hari : Selasa
Tanggal : 31 Maret 2020
Tempat : zoom meeting

Memutuskan bahwa mahasiswa :

Nama : Muhammad Thamliko S
NIM : 30601501738
Judul TA : Analisa Unjuk Kerja Pelepasan Beban Pada Generator di Pembangkit Listrik Tenaga Uap Tanjung Jati II Jepara Jawa Tengah

wajib melakukan perbaikan dan membuat tugas seperti tercantum dibawah ini:

NO	REVISI	BATAS REVISI
1.	Perbaiki semua yang ditandai pd draft (sudah di email).	

ACC

NO	TUGAS

Semarang, 31 Maret 2020
Penguji, I

ACC ARTTINI

6. Acc turnittin

