

**CONSTANT CURRENT LED DRIVER
Z-LED-24W-700mA-SLIM**

TEST RESULTS

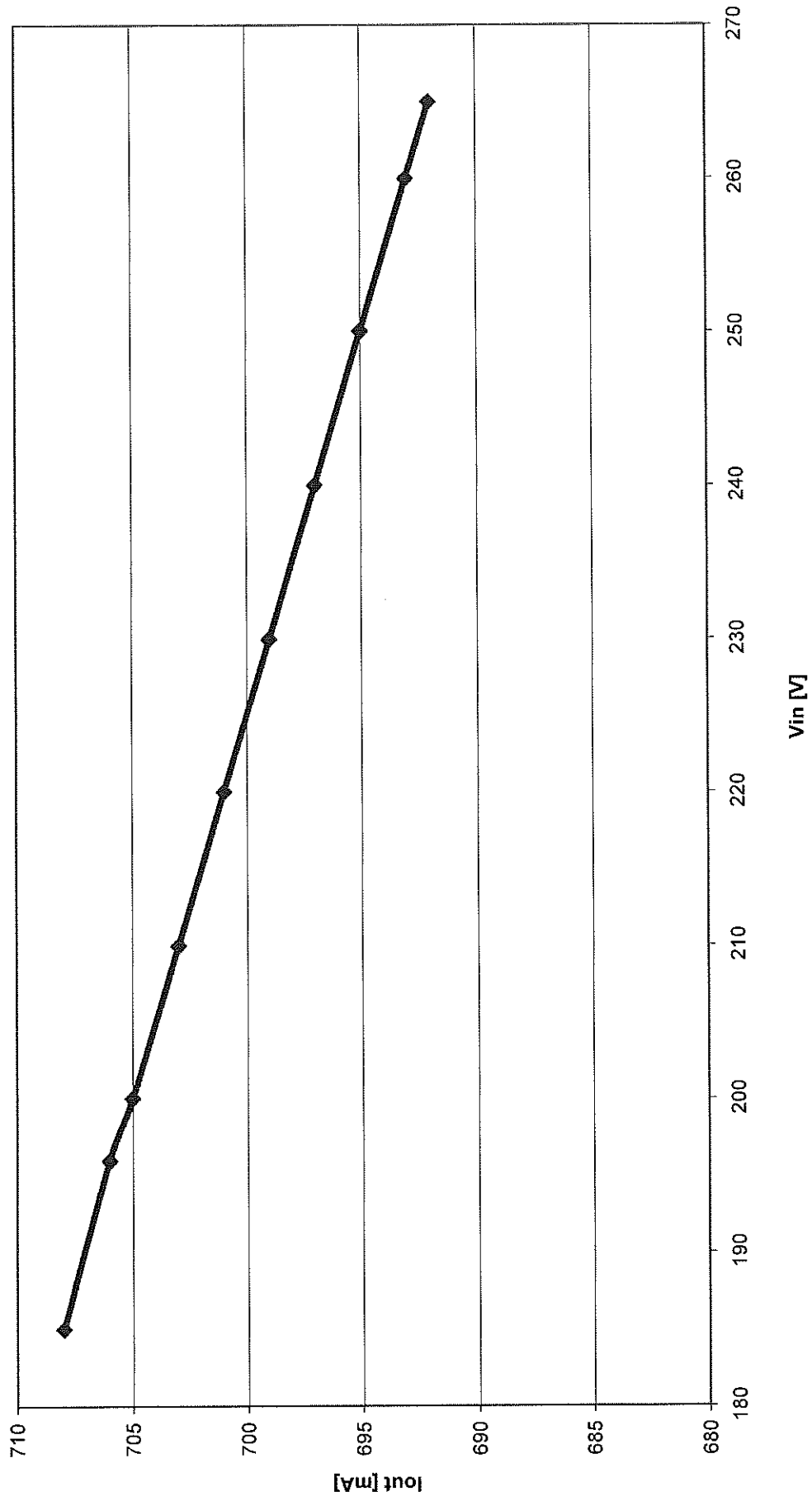
Govena Lighting, Poland

28 February 2019

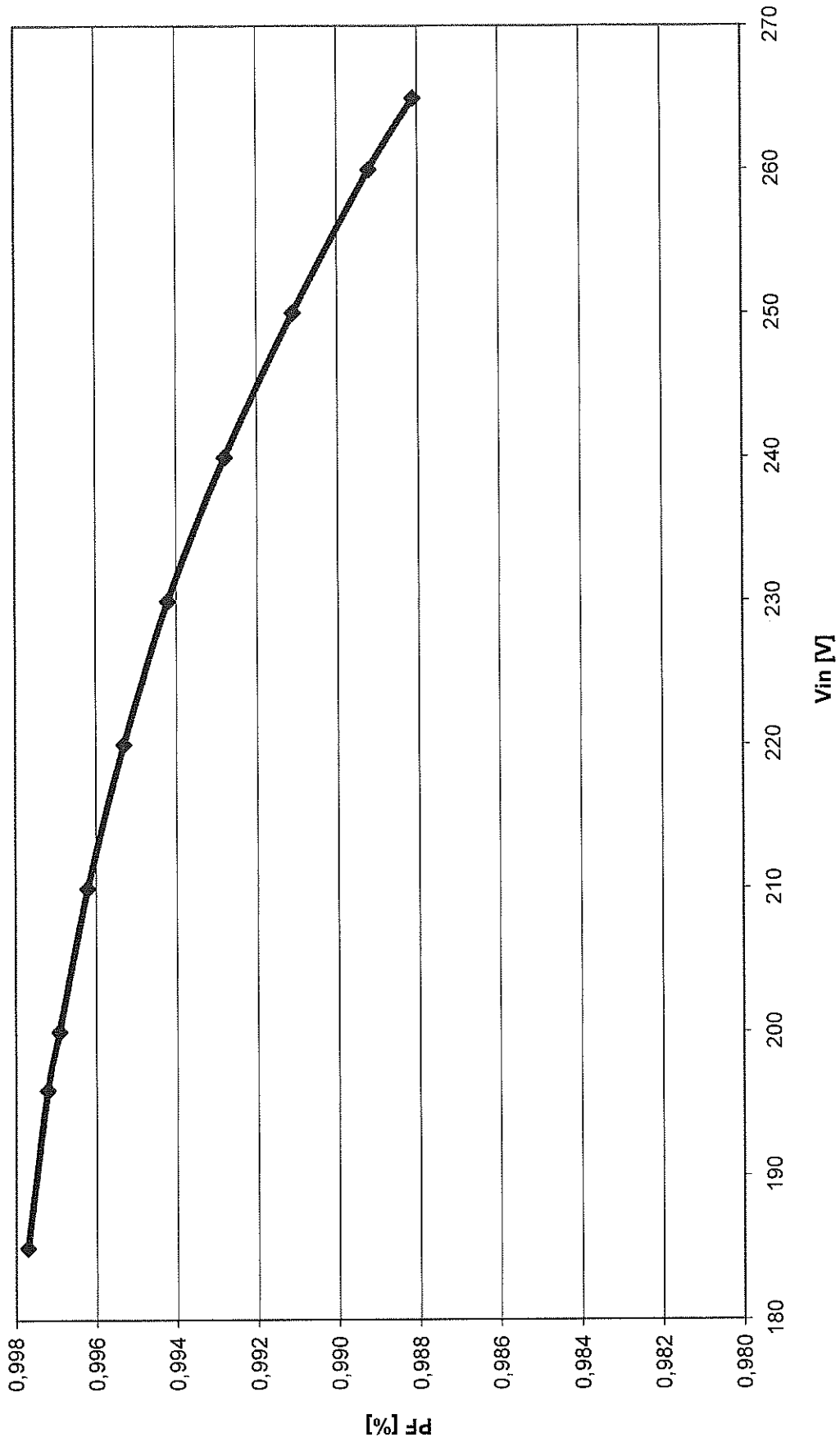
TECHNICAL SPECIFICATION

PARAMETER	VALUE
Output Power (Pout)	12-24W
Input Voltage (Vin)	185-265Vac
Output Current (Iout)	700mA
Output Voltage (Vout)	35V
Total Harmonic Distortion (THD)	$\leq 10\%$
Power Factor (PF)	≥ 0.98
Efficiency (η)	$\geq 89\%$
Power Consumption with no load (mW)	$\leq 300\text{mW}$
Dimmer Compatibility	No

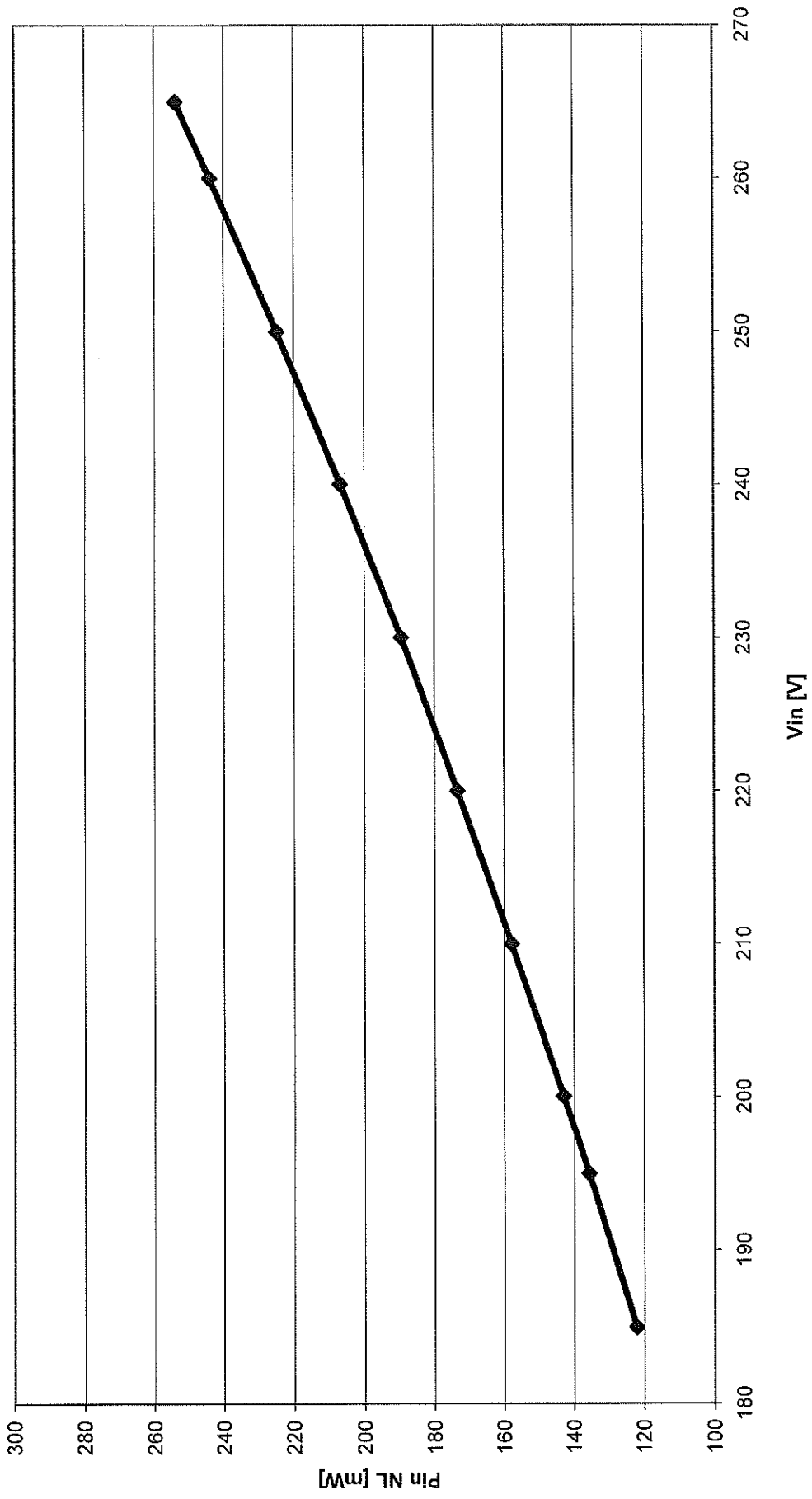
LINE REGULATION



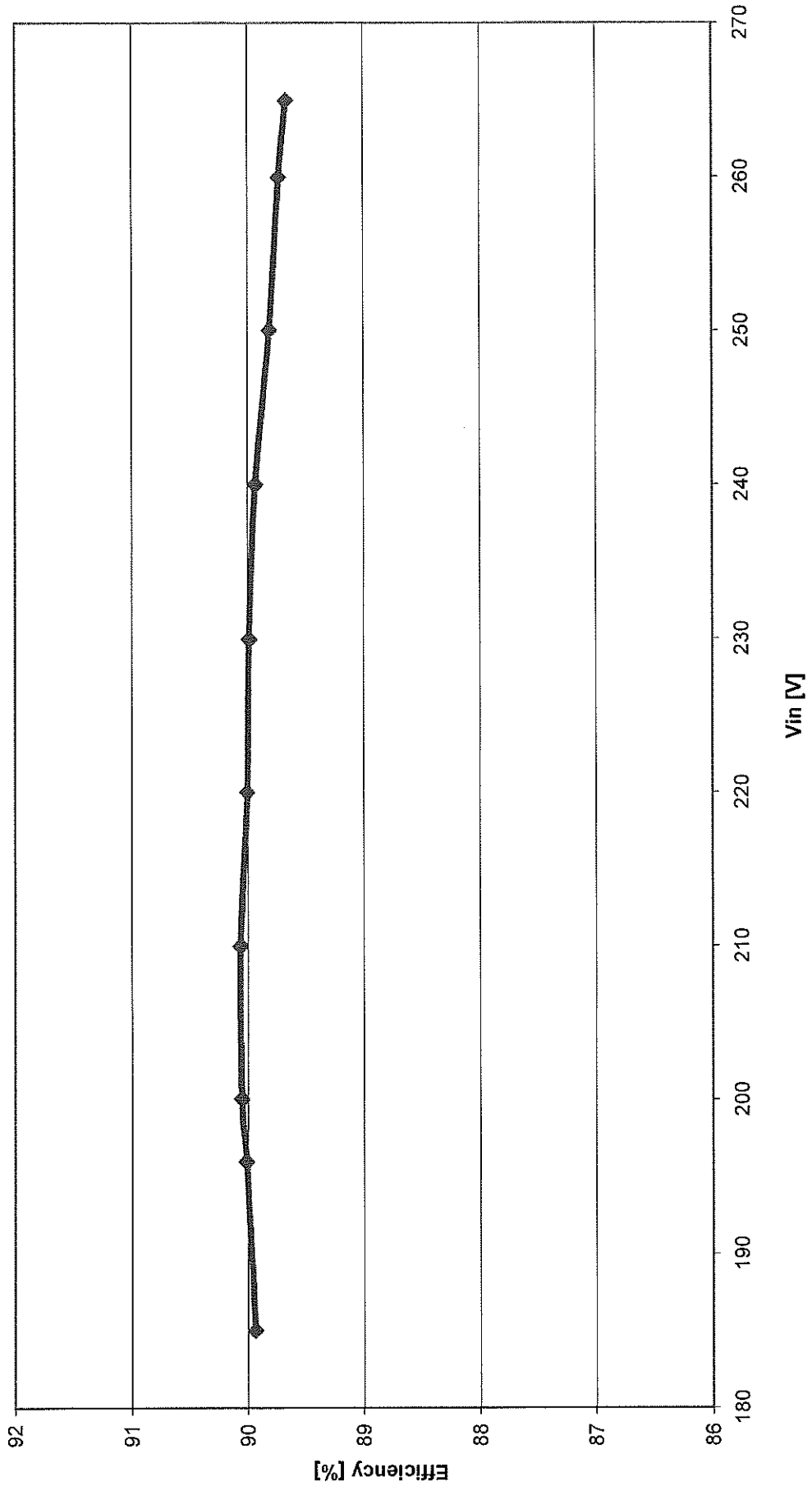
POWER FACTOR



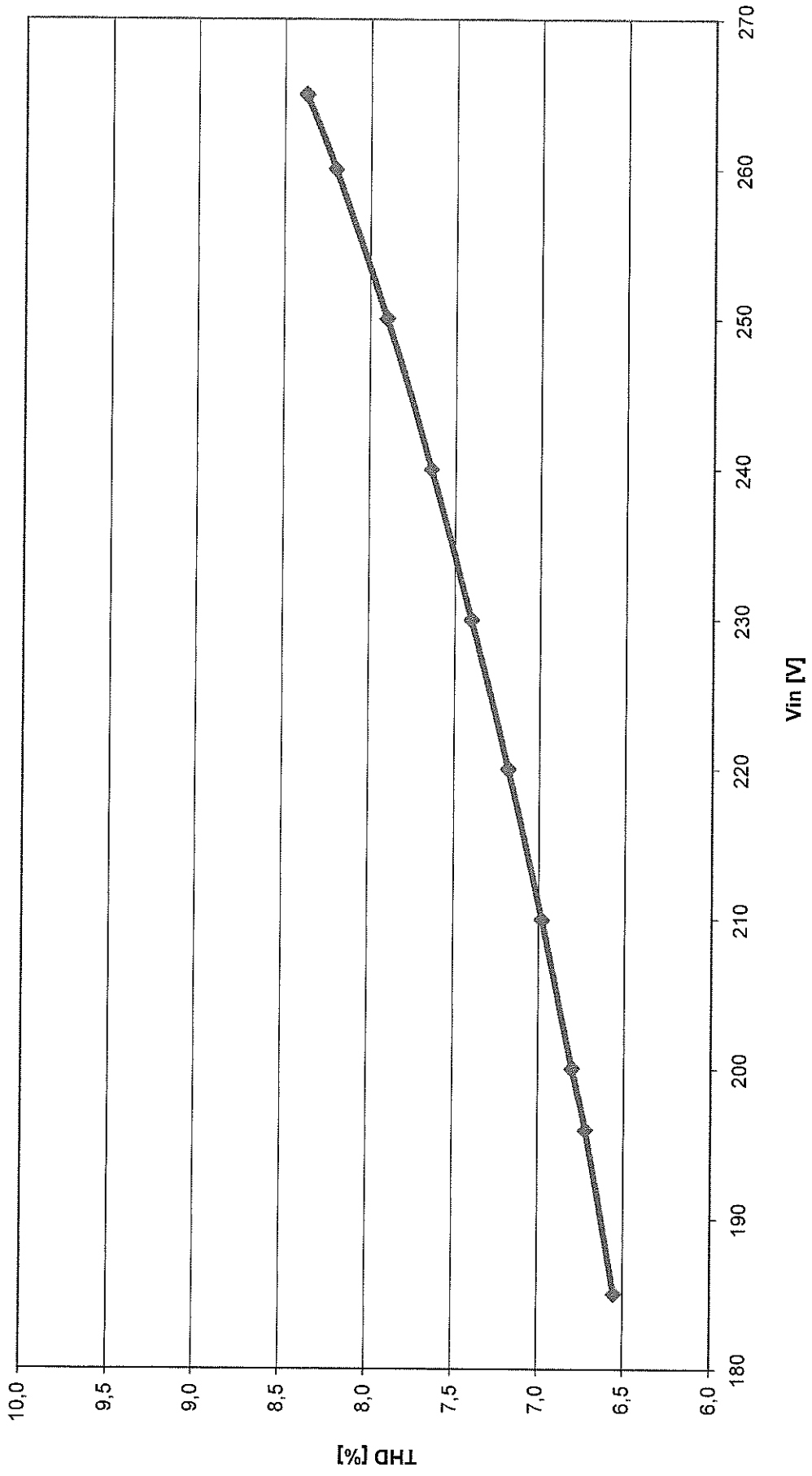
POWER CONSUMPTION WITH NO LOAD



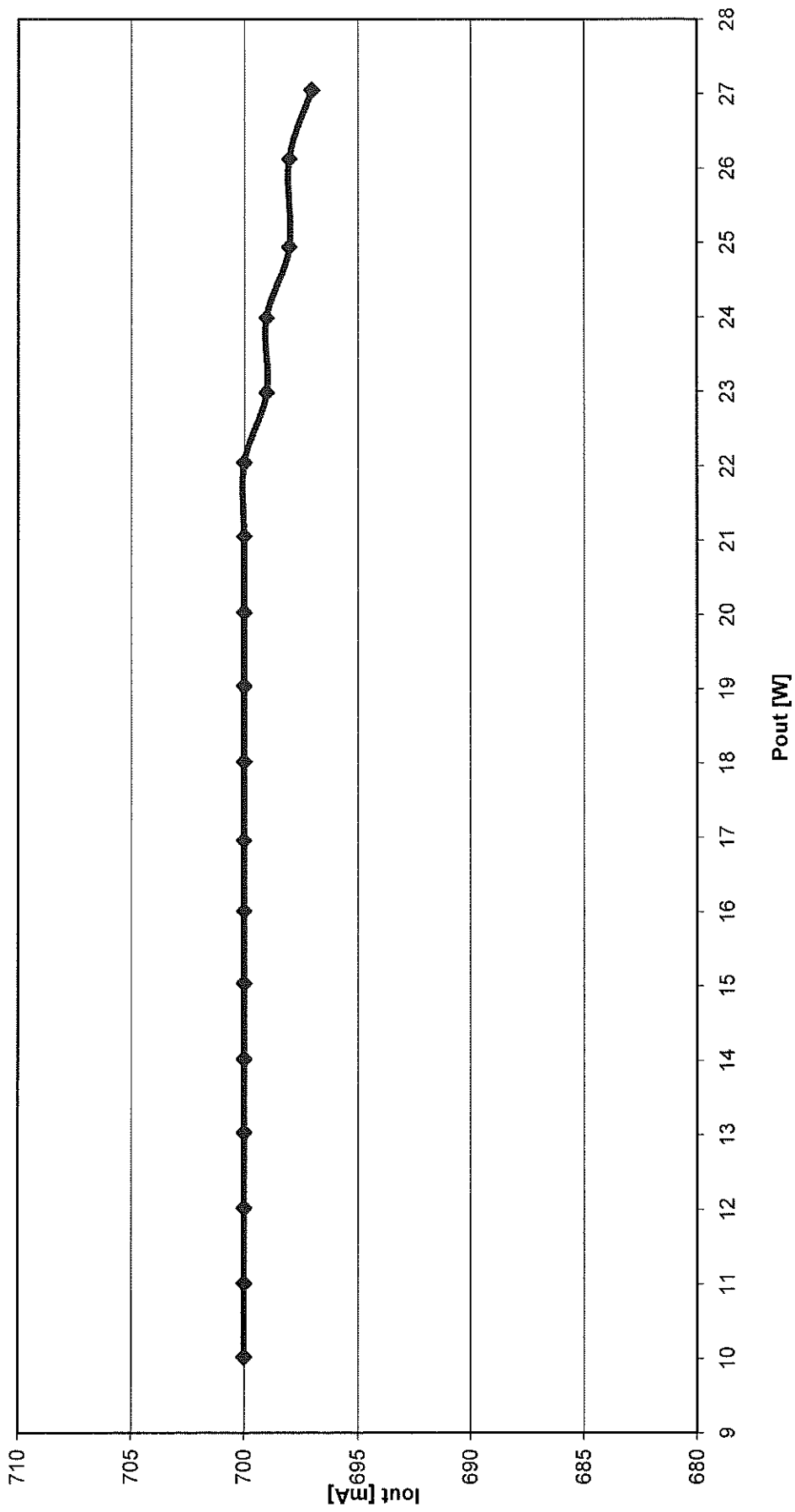
SYSTEM EFFICIENCY



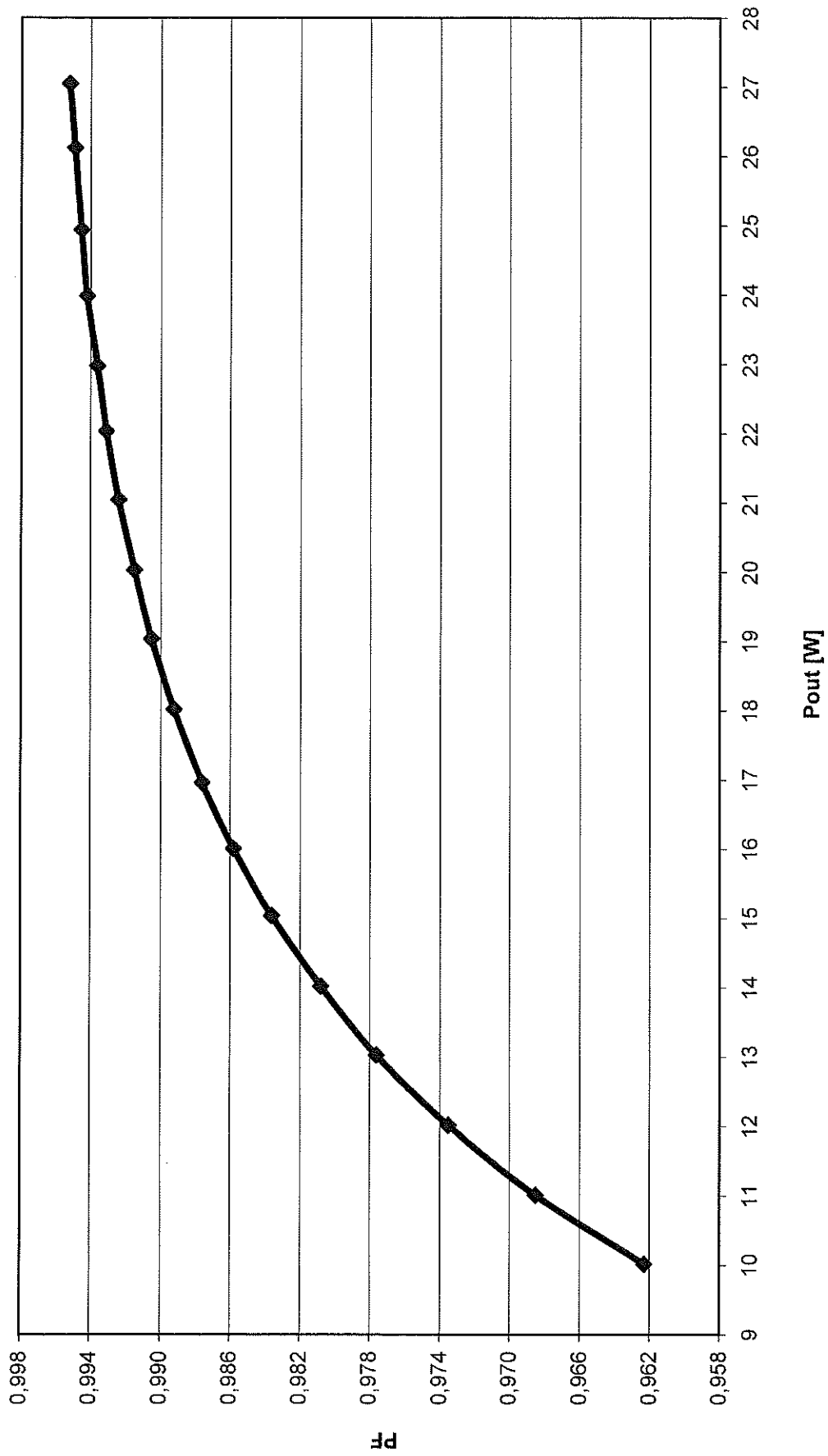
TOTAL HARMONIC DISTORTION



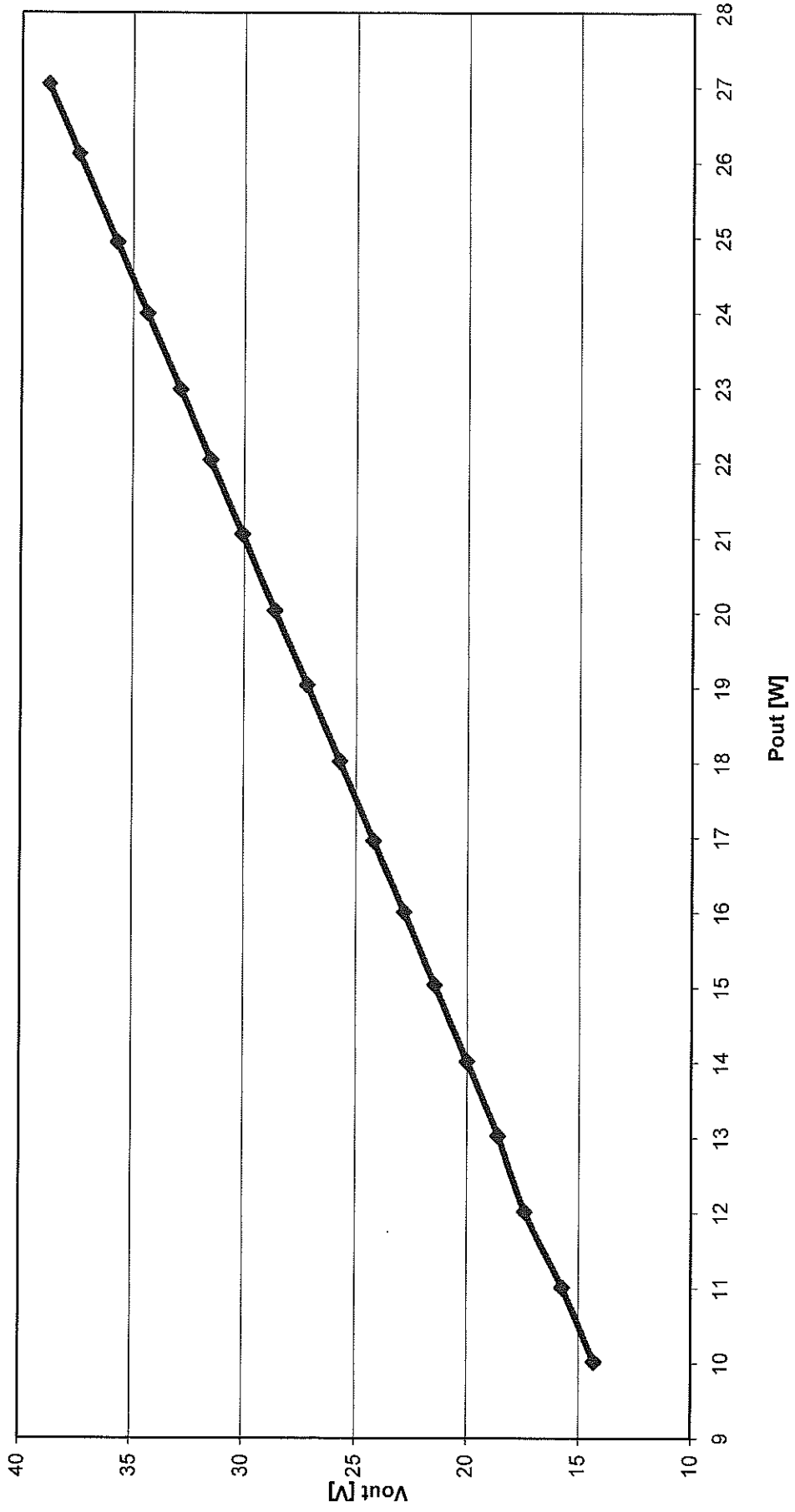
OUTPUT CURRENT VERSUS OUTPUT POWER
 $V_{in} = 230V$



PF VERSUS OUTPUT POWER
 $V_{in} = 230V$



OUTPUT VOLTAGE VERSUS OUTPUT POWER
 $V_{in} = 230V$



Pomiary temperatury (bez obudowy) w $T_a = 27^{\circ}\text{C}$:

1. T1: 65°C ,
2. D1: 72°C ,
3. TR: rdzeń 58°C , uzwojenie 61°C (od strony tranzystora) i 61°C (od strony kondensatorów elektrolitycznych),
4. D5: 59°C ,
5. U1: 54°C ,
6. L1 53
7. L2 37

Pomiary wykonano po 3 godzinach pracy zasilacza z obciążeniem znamionowym 24W.

Napięcia:

1. V_{out} without load: 46V
2. V_{ds} tranzystora T1: 600V dla $V_{in} = 230\text{Vac}$ oraz 644V dla $V_{in} = 265\text{Vac}$.
3. V_{cc} sterownika U1: 23.2V dla P_{out} nom.