

**CONSTANT CURRENT LED DRIVER
Z-LED-30W-700mA-SLIM**

TEST RESULTS

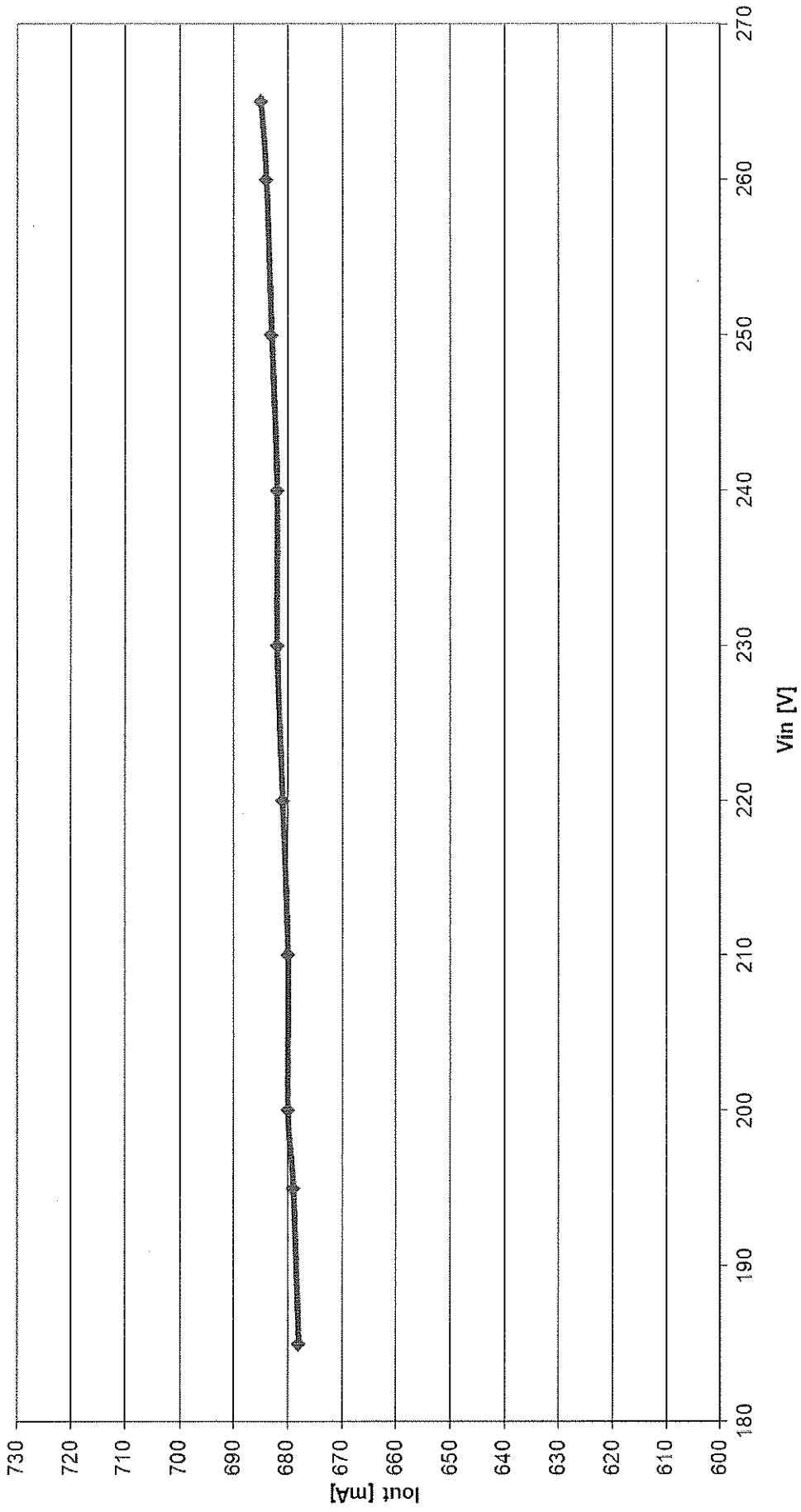
Govena Lighting, Poland

26 February 2019

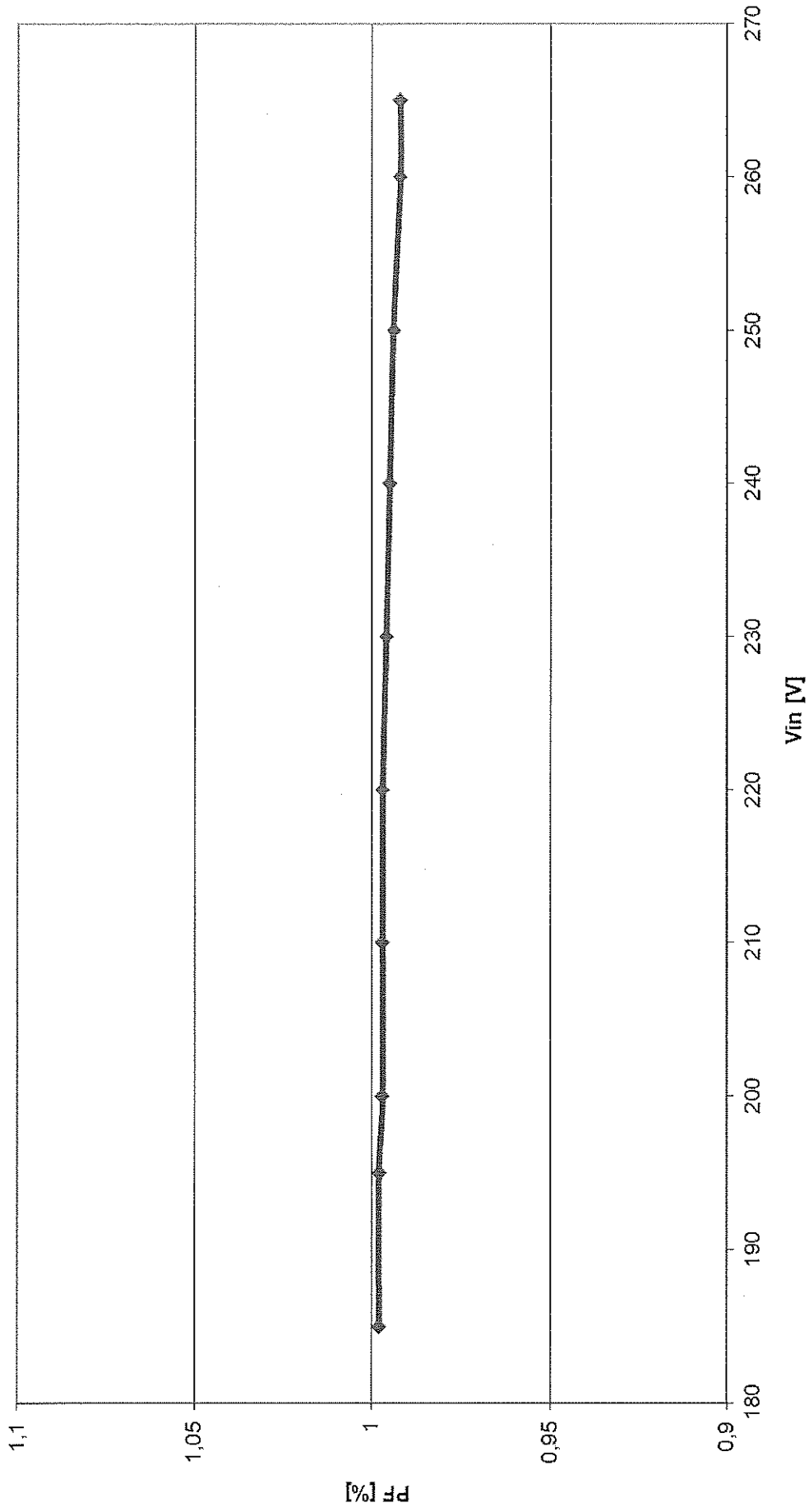
TECHNICAL SPECIFICATION

PARAMETER	VALUE
Output Power (Pout)	12-30W
Input Voltage (Vin)	185-265Vac
Output Current (Iout)	700mA
Output Voltage (Vout)	43V
Total Harmonic Distortion (THD)	$\leq 10\%$
Power Factor (PF)	≥ 0.99
Efficiency (η)	$\geq 89\%$
Power Consumption with no load (mW)	$\leq 300\text{mW}$
Dimmer Compatibility	No

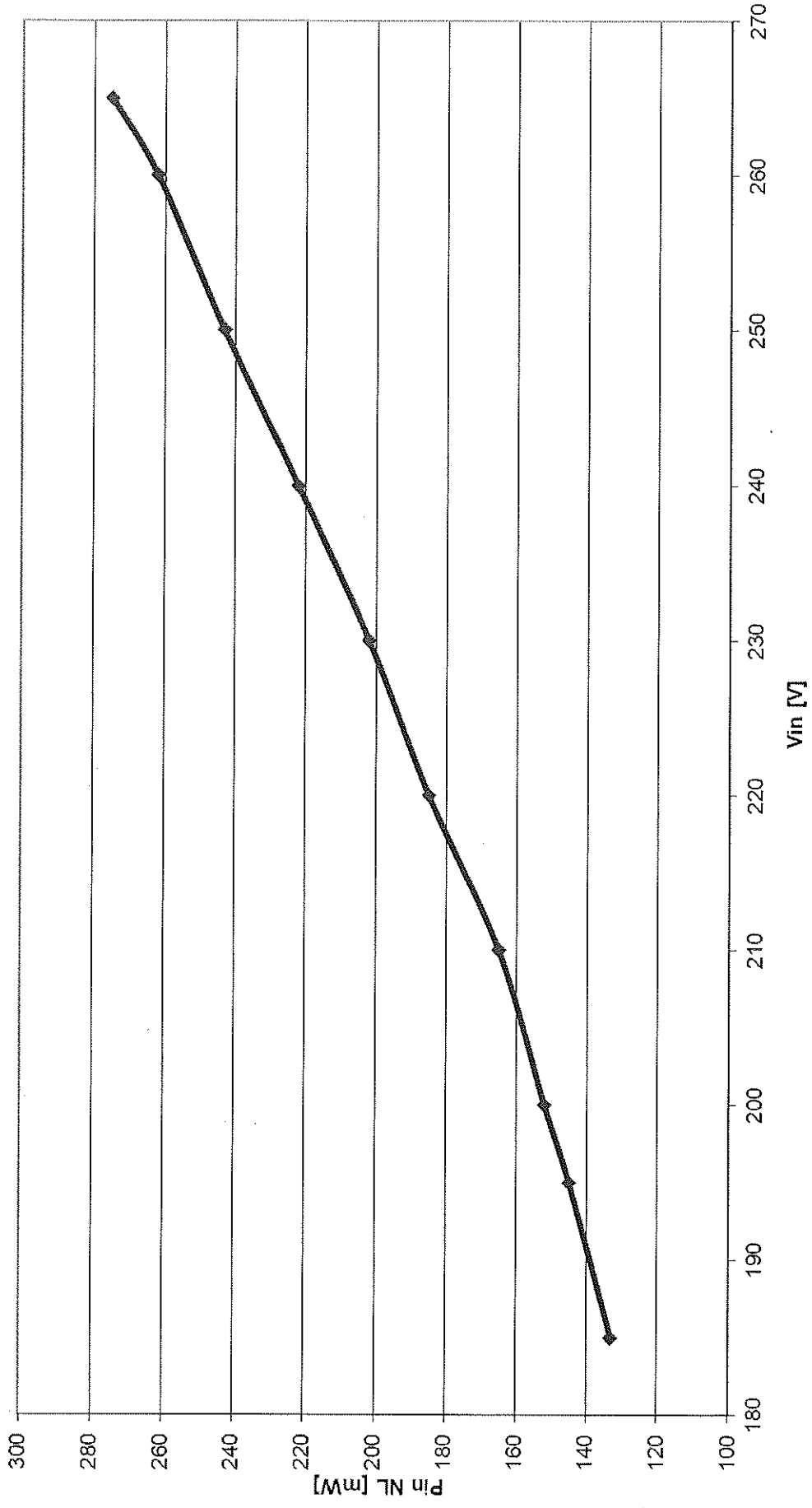
LINE REGULATION



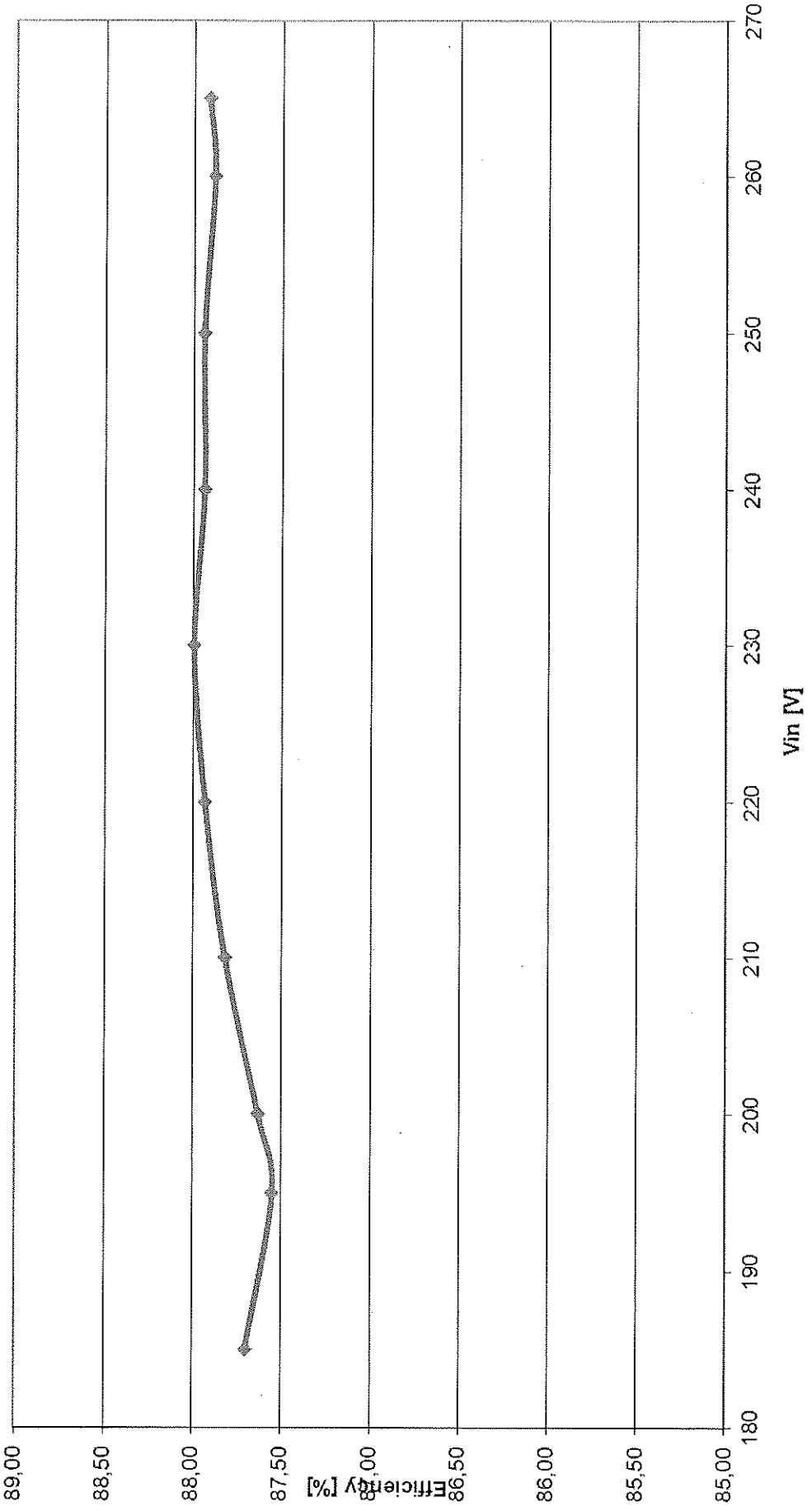
POWER FACTOR



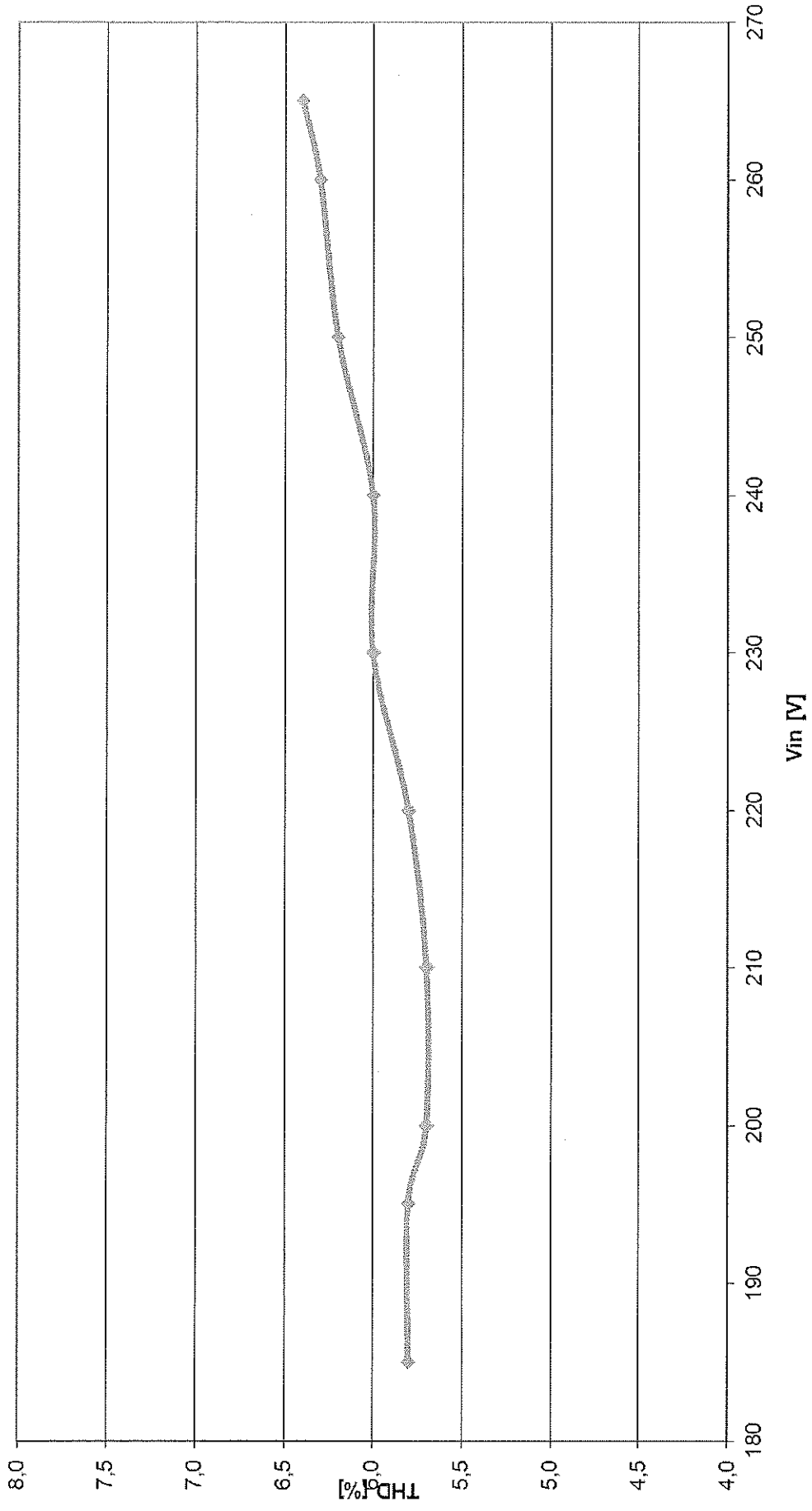
POWER CONSUMPTION WITH NO LOAD



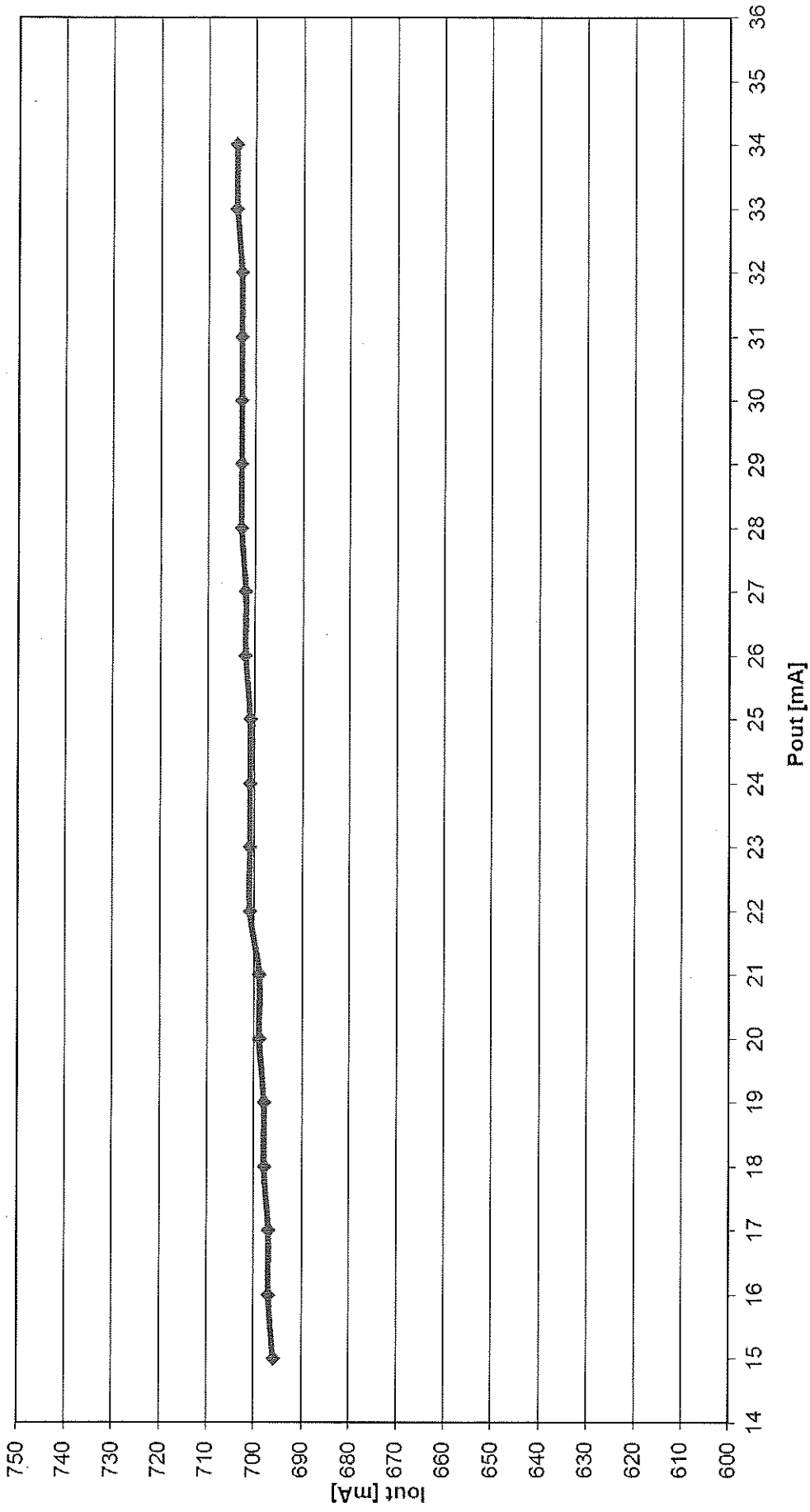
SYSTEM EFFICIENCY



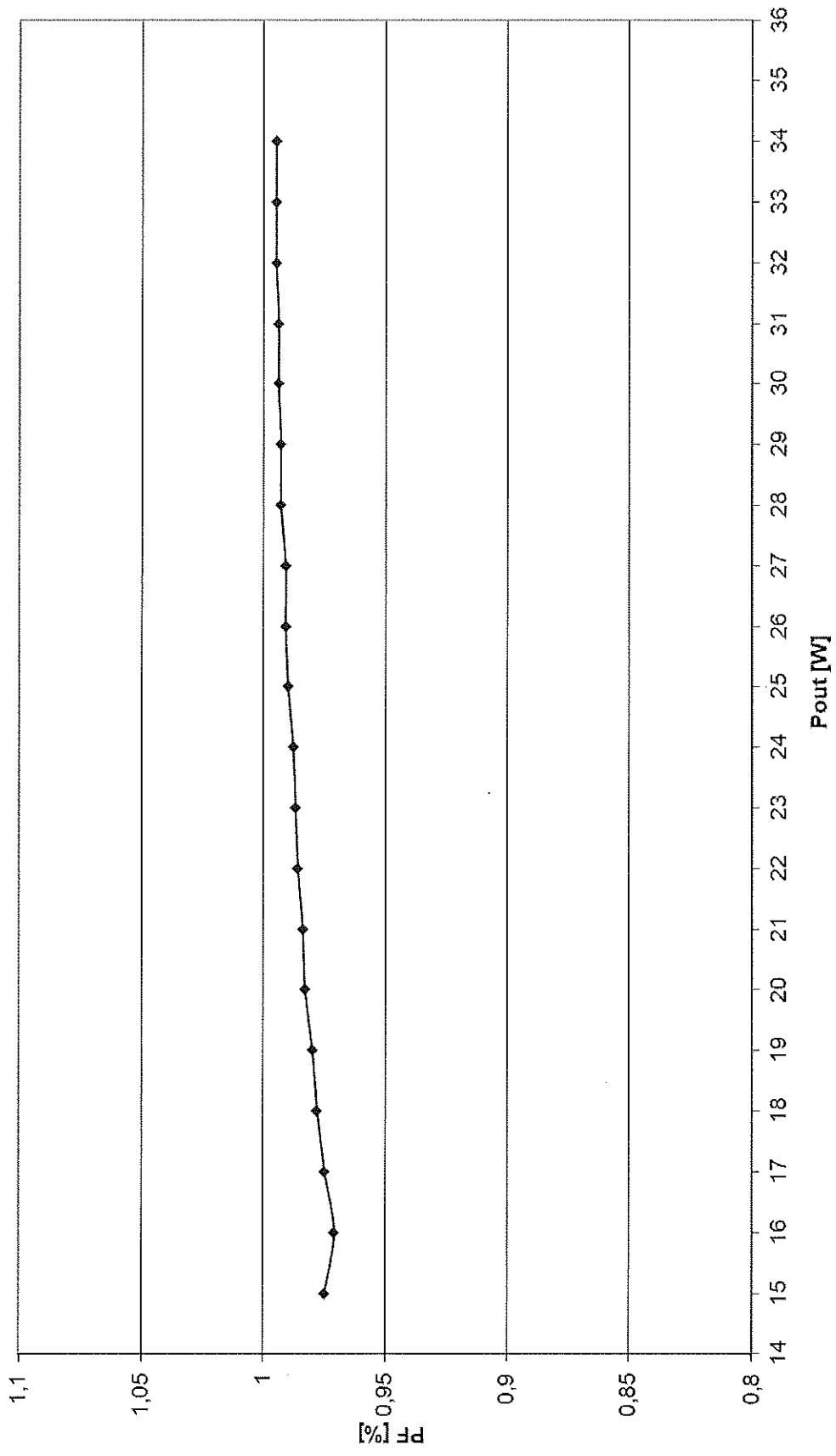
TOTAL HARMONIC DISTORTION



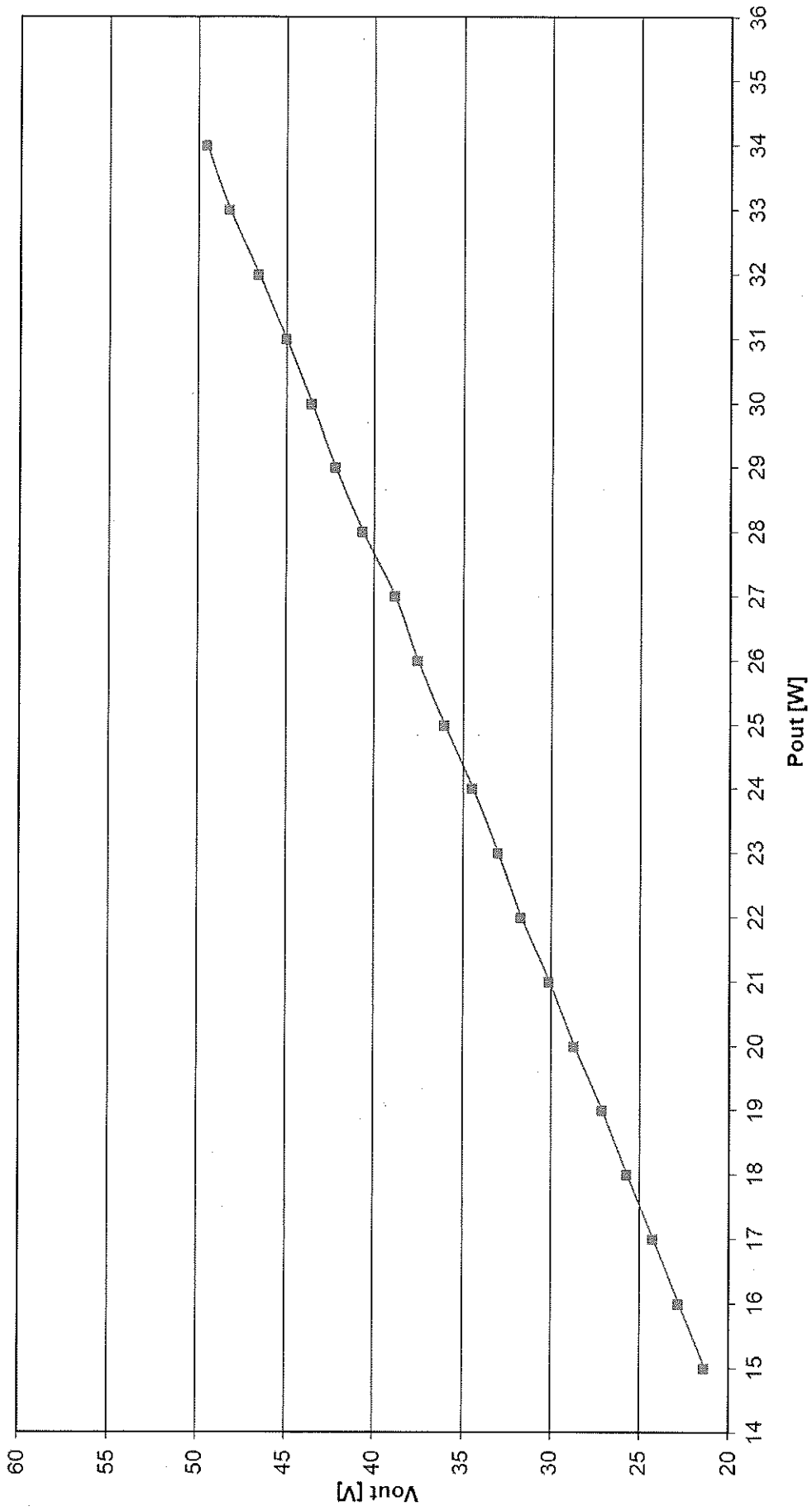
OUTPUT CURRENT VERSUS OUTPUT POWER



POWER FACTOR 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: 68°C ,
2. D1: 78°C ,
3. TR: rdzeń 74°C , uzwojenie 81°C
4. D5: 80°C ,
5. U1: 53°C ,
6. L1: 74°C ,
7. L2: 36°C ,
8. L3: 33°C .

Pomiary wykonano po 3 godzinach pracy zasilacza z obciążeniem znamionowym 30W.

Napięcia:

1. Vout without load: 61V
2. Vds tranzystora T1: 630V dla $V_{in} = 230\text{Vac}$ oraz 700V dla $V_{in} = 265\text{Vac}$.
3. Vcc sterownika U1: 22V dla $P_{out\ nom}$.