



# ENERJİTEM

GÜNEŞ ENERJİSİ, ELEKTRİK VE GÜÇ ÇÖZÜMLERİ



Energy Source of Your Business

# ***PRODUCT RANGE***

***1)UPS(UNINTERRUPTIBLE POWER SUPPLY)***

***2)SERVO VOLTAGE REGULATORS***

***3)STATIC VOLTAGE REGULATORS***

***4)SOLAR PANELS***

***5)ELECTRIC VEHICLE CHARGING STATIONS***

***6)INVERTORS***

***7)BATTERIES***





## 1-200 KVA



- Fully automatic servo controlled.
- 1 (digital) voltmeter
- Correction (control) speed: 200 vac / sec.
- Input voltage range: phase to neutral 150 - 250 vac;
- Output voltage range: phase to neutral 220 vac; (230 Vac adjustable)
- Output voltage tolerance: 2%
- Device efficiency: 97%
- - Working with io at +55 degrees.
- 3 seconds of operation at 150% Capacity.
- With overload, short circuit, over heat and voltage protection unit.
- Glass fiber wire transformer is wound and resistant to 250 degrees heat.
- High setting speed.
- Sensitivity tolerance adjustable from front panel.
- Timed fan cooling.
- Fault signal (with audible light)
- The protection unit of the regulator is activated with a delay of 7 seconds. (Adjustable)
- (To prevent "damage from sudden voltage fluctuations")

1 - o 2 Mechanical by-pass switch. ( 1: Mains, 2: Regulator)

- The device is guaranteed for 2 (two) years against manufacturing defects.
- 10 years spare parts supply is guaranteed.



## 1-200 KVA

INPUT PARAMETERS	
Input connection phase number	1 Phase
Input voltage correction range	min. 11 0V AC – Max 300 V AC
Card supply operating voltage	75 V. AC
Continuous run time at full load	7/24
operating frequency	50 / 60 Hz.
OUTPUT PARAMETERS	
Corrected output voltage	200 V AC ... 220 V AC ... 240 V AC (adjustable in menu)
Correction speed	Frequency 50 = 20ms – Frequency 60 = 50ms
Output tolerance	1% .....9% (Can be set in the menu.)
Output delay time setting	1sn.... 10sn (Menüden ayarlanabilir.)
Output upper limit shutdown	... 242 V AC Adjustable from the menu (Protected models)
Output lower limit shutdown	75 V AC .... Adjustable in menu (ON PROTECTED MODELS)
Overload	10 Second At 200% Load
EFFICIENCY	%98 at full load
GENERAL PARAMETERS	
Mechanical By-Pass	with switch switch
Automatic By-Pass	Optional
Cooling System	Smart Fan
Harmonic Distortion	No
Input voltage - Output voltage measurement	TRUE RMS (can be set from the menu)
Display	2x3 Digit red led display
ENVIRONMENTAL CONDITIONS	
Operating temperature	-10 C / + 50 C
related humidity	<%90 DIN
working height	<3000 Metre
acoustic level	<50 dB

## 1-200 KVA

### *Regulator with microprocessor*

#### *Wide Choice of Models*

*More than 200 standard models from 1 kVA to 40 kVA single-phase, from 1 kVA to 2000 kVA three-phase.*

#### *Wide Range of Voltages*

*In standard models, single-phase 150-250 volt input is 220 volt output. Three-phase 275-450 volt input is 380 volt output. Production is made in desired voltages upon order.*

#### *Regulation Speed*

*The regulation speed (average) for standard models is 200 volts/second.*

#### *Output Regulation*

*Within the capacity of the regulator, it does not fluctuate during loads from zero (0) to maximum and voltage changes at the time of load, it does not disturb the mains frequency, the output is fully sinusoidal, the sensitivity can be adjusted between 1-5%. As long as the regulator stays within the kVA limits, the power factor of the load is insignificant.*

#### *Mechanical Construction*

*Since all models are produced in heavy industry type, they can be used in all areas. Burns and abrasions in the coil are prevented with the cooled roller brush system. Brushes do not spark/arc during regulation. High Efficiency It is more than 97% efficient on average. Since SIEL Electronic Regulators are produced with high quality silicon sheet and electro/impulse copper, the idle loss is minimal. Operating temperature For areas from -10 °C to +40 °C in closed areas, extra air-cooled or regulators should be used below their capacity. Care should be taken not to use regulators in extremely humid and acidic environments.*

#### *Surge Protection Unit (optional)*

- \* At voltages above the voltage capacity of the regulator*
- \* In case the mains voltage is cut off and comes back to a high voltage when the regulator is operating at low voltages.*
- \* In case the Regulator works in a dirty environment on time, is neglected and fails or gives irregular voltage, the Regulator cuts the output voltage for 8 seconds, and gives an output when the regulation is completed. It does not output in case of a malfunction.*

#### *Phase Protection Unit*

*In Three Phase Regulators, if one of the 3 phases is cut off, it cuts the output completely. When the phase comes, it is automatically activated and outputs.*