



TURKEY

info@generg.com.tr

+90 216 329 90 93

Ferah Mah. Günbattı Sok.  
8/8 Çamlıca, Üsküdar, İstanbul / TR

30 - 400 kVA

## GEN ET 300 H SERIES

UNINTERRUPTIBLE POWER SUPPLIES



3 phase in / 3 phase out

### 3 LEVEL TECHNOLOGY

### IGBT RECTIFIER

### DSP CONTROL

The new ET Power range UPS uses the latest DSP technology to be programmed to suit a wide variety of electrical environments without impeding its performance. With the GEN ET Power H range, efficiency, reliability and functionality are enhanced to levels unattainable with the old analogue technology. This technology does not only create significant increase in MTBF, but the capability of DSP to accurately manipulate signals at very high speed permits all the UPS subsystems to be controlled with greatly increased precision.

### GENERAL SPECIFICATIONS

Transformerless UPS topology

- 3 Level topology
- High input power factor
- High efficiency up to 95%
- Cold start function
- Static and maintenance by-pass switch
- Output short circuit and overload protection
- External REPO switch input
- 512 events memory (512 events 45000 alarms)
- Clock and calendar (battery supported)
- Automatic battery test, remaining battery time indicator
- Temperature compensated charge system (optional)
- 2 RS232 serial ports and 12 dry contact outputs
- 3 DSP controlled modular structure
- Optional SNMP and MODBUS adaptors
- Optional graphical panel
- Optional usb flash memory
- Full digital structure
- Small footprint
- Ecomode operation (optional)
- Fewer electronic components
- Output current limiting
- Advanced diagnostics for the input
- Selectable input/output voltage/frequency/range
- Split by-pass input (second input)
- Output DC leakage protection
- Separate DSP for inverter control
- Separate DSP for the PFC
- 3 level battery protection
- High charge current capacity
- Charge/discharge current indicator
- Advanced remote control
- Manufactured according to EC Directive; EN62040
- 5 years spare parts support
- 2 years warranty





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Ferah Mah. Günbattı Sok.  
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UK

ukoffice@generg.com.tr

+44 (0) 143 776 69 84

Old Hakin Road Merlins Bridge  
Haverfordwest SA61 1XE  
Pembrokeshire Wales

30 - 400kVA

## TECHNICAL SPECIFICATIONS (GEN ET300H SERIES)

MODEL	ET330H	ET340H	ET360H	ET380H	ET3100H	ET3120H	ET3160H	ET3200H	ET3250H	ET3300H	ET3400H	
Power (kVA)	30	40	60	80	100	120	160	200	250	300	400	
<b>INPUT</b>												
Voltage	380/400 VAC 3P + N + G ± 20% (at 100% load) / - 40% (at 70% load)											
Frequency	50Hz / 60Hz, ± 5%											
Power factor	≥ 0.99 (at 100% load)											
(THDI) (*)	≤ 3%											
By-pass voltage	380/400 VAC 3 Phase + N, ± 10%											
Voltage distortion	≤ 10%											
Protection	Fuses, Voltage & Frequency tolerance, Input power limit, Phase sequency indicator											
<b>OUTPUT</b>												
Power (kW)	27	36	54	72	90	108	144	180	225	270	360	
Power factor	0,9 (0,8 and 1 optional)											
Voltage	380/400 VAC 3P + N, ± 1% (415 VAC optional )											
Frequency	50Hz / 60Hz											
Frequency tolerance	Line synchronized: ± 2% (adjustable) / Free running: ± 0,1%											
Efficiency	up to 95%											
Crest factor	3:1											
Overload protection	100% - 125% load: 10 min, 125% - 150% load: 1 min, - > 150% load: by pass											
Other protections	Advanced short circuit, Voltage tolerance, DC balance, Regenerative load, Current limiting											
Voltage THD	≤ 3% (at 100% linear load)											
<b>BATTERIES</b>												
Type	VRLA AGM / GEL / NiCd											
Number of batteries	2x30 (±30): 60 pieces											
Charge voltage	2x405 VDC											
End of discharge voltage	2x300 VDC											
Battery cabinet	Internal					External						
Battery ambient temperature	25°C											
Protections	3 level alarms, Battery fuses, Charging current limit, Temperature compensation (optional)											
Automatic testing	Standard every 72 hours (adjustable)											
<b>GENERAL</b>												
Standards	EN62040-1, EN62040-2, EN62040-3											
User interface	4 lines LCD panel, Mimic leds, 5 vector buttons, Buzzer, Optional TFT panel											
Indicators	P-N voltage, P-P voltage, Current, Power, Crest Factor, Frequency, PF, Service Time											
Advanced	Self diagnostics, 3 maintenance time indicators, Calibration over RS232, operating hour meter											
Communication	2xRS232 serial ports, 4 standard and 8 optional DRY contact alarm relays											
Inputs	EPO input, Interactive battery panel input, Genset input											
Genset kit	Standard (programmable)											
Software	Standard T-Mon UPS Management Software (3 clients + 1 server management)											
Alarm logging	Standard:with time & date 512 events											
Protections	Power module over-temperature, Overcurrent, Temperature high alarm											
Temperature range	0°C - 40°C											
Protection degree	IP20											
Relative humidity	95% max. (non-condensing)											
Altitude	< 1000m above sea level											
Acoustic noise	< 57dBA	< 62dBA			< 65 dBA			< 68dBA				
Weight without batteries (kg)	100	173	197	209	220	232	265	470	525	635	680	
Dimensions (mm) HxWxD	1040x400x815		1440x515x855					1900x880x775		1900x1250x775		
<b>OPTIONS</b>												
Different input/output voltage	Please ask											
Transformer	Galvanic isolation transformer at the input & output (internal)											
Software	T-Mon Admin Multi UPS monitoring 10-50-100-200 clients, T-Mon Server 50-100-200 clients											
Adaptors	SNMP, RS485, Remote monitoring panel, MODBUS (RS485 or TCP/IP), USB Alarm Logger, TCP/IP, GSM/GPRS Modem, Comport multiplexer											
Parallel operation	Up to 8 units											

(\*) Depending on power and input/output conditions