



Open Frame Configuration



Sound Attenuated Canopy

GENERAL SPECIFICATIONS

Model	Huvolt H600
Prime Power Rating	600kW (750kVA)
Standby Power Rating	644kW (805kVA)
Frequency	50Hz (60Hz available on request)
Voltage	400V
Rated Current	1080A
Phase	Three Phase (4-wire)
Power Factor	0.8 (lagging)
Voltage Regulation	- Steady state: $\leq \pm 0.5\%$ - Instantaneous: $\leq \pm 15\%$ - Waveform distortion: $\leq 5\%$ - Recovery time: $\leq 1.5\text{sec}$
Frequency Regulation	- Steady state: $\leq \pm 2\%$ - Instantaneous: $\leq \pm 5\%$ - Recovery time: $\leq 3\text{sec}$ - Waveform stability: $\leq \pm 0.5\%$
Fuel Consumption (100% load)	205g/kW.h
Dimensions (L×W×H)	4500 × 1800 × 2300mm
Weight	5500kg

ENGINE SPECIFICATIONS

Engine Make	Perkins (UK)
Engine Model	4006-23TAG2A
Engine Type	4-stroke, turbocharged with direct injection
Configuration	6-cylinder, inline
Displacement	22.9L
Bore × Stroke	160mm × 190mm
Compression Ratio	16:1 (estimated)
Aspiration	Turbocharged & Aftercooled
Engine Speed	1500rpm (50Hz)
Governor	Electronic Control Module (ECM)
Cooling System	Water-cooled with belt-driven cooling fan
Lubrication Oil Capacity	113L
Engine Protection	Low oil pressure, high temperature
Environmental Rating	Operational up to 40°C ambient temperature

ALTERNATOR SPECIFICATIONS

Alternator Brand	Stamford (UK)
Alternator Model	HCI634G
Type	Brushless with AVR (Automatic Voltage Regulation)
Insulation Class	H degree
Protection Class	IP23
Connection	Three phase, four wire
Telephone Interference Factor (TIF)	<50
Telephone Harmonic Factor (THF)	<2%
Excitation System	Self-excited
Construction	Single bearing design



- Advanced automatic start/stop and synchronizing controller
- Seamless integration for multi-generator systems
- Real-time voltage, frequency, and phase angle synchronization
- Active and reactive power load sharing
- Automatic load demand sequencing for efficiency
- Reverse power and overload protection
- Over/under voltage and frequency protection
- Soft loading/unloading with configurable ramp rates
- Remote monitoring via Ethernet, Modbus, and SCADA systems
- Built-in data logging and event history tracking

Warranty & Global Support

Every HUVOLT generator is backed by our comprehensive 12-month/1000-hour warranty and responsive global support network. Our dedicated technical support team is available to assist with installation, maintenance, and troubleshooting anywhere in the world. We maintain strategic parts depots for fast-track spare parts service and offer worldwide shipping capabilities for complete peace of mind.

For more information or to request a quote, contact us:

Email: info@huvoltpower.com | Phone: +44 0800 009 6633 | Website: www.huvoltpower.com

© 2025 Hughes Power Services Ltd. All specifications subject to change without notice. Document version: 1.0