

HYUNDAI UPS

10KVA – 120KVA

(3:3)

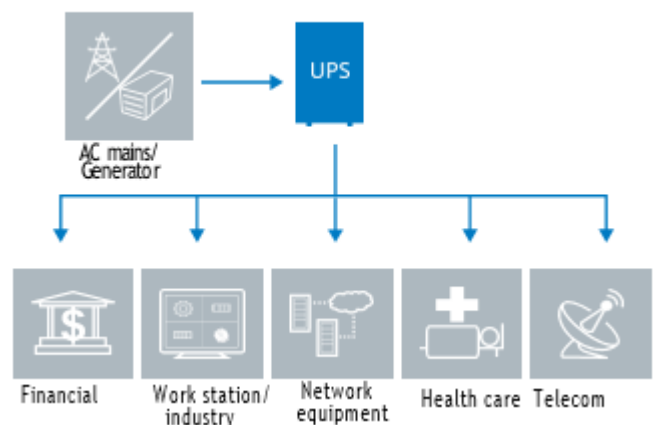
PF 0.9



Features

- Online double-conversion with full DSP control
- IGBT inverter with output isolation transformer
- 100% unbalance load capability
- Output power factor 0.9
- Generator compatible
- Support battery cold start and auto-restart when mains power is restored
- ECO mode operation for energy saving
- Superior protection
- 7 inches LCD touch screen friendly human & machine interface
- Front access makes maintenance and replacement simplified (60-120kVA)
- Intelligent self-diagnosing function, all kinds of failure protection, large capability of history records storage
- High MTBF (>200,000 h)
- Low MTTR (<0.5 h)
- Standard emergency power off (EPO)
- Standard RS232, RS485, intelligent slot, dry contacts communication port
- Optional SNMP communication card
- Optional N+X redundancy parallel up to 6 units
- Optional input filter to improve input power factor

Typical application



Specifications

MODEL	HD-10K3	HD-15K3	HD-20K3	HD-30K3	HD-40K3	HD-60K3	HD-80K3	HD-100K3	HD-120K3
Capacity	10KVA/9KW	15KVA/13.5KW	20KVA/18KW	30KVA/27KW	40KVA/36KW	60KVA/54KW	80KVA/72KW	100KVA/90KW	120KVA/108KW
INPUT									
Input wiring	Three-phase five-wire (3Φ + N + PE)								
Rated voltage	380/400/415Vac								
Voltage range	285-475V								
Rated frequency	50/60Hz								
Frequency range	(50/60) ± 5Hz								
Power factor	≥ 0.95 (with filter)								
Delayed start of rectifier	10s (1-300 settable)								
Bypass voltage range	± 20% (settable)								
OUTPUT									
Output wiring	Three-phase five-wire (3Φ + N + PE)								
Rated voltage	380/400/415Vac								
Output voltage regulation	± 1%								
Output frequency regulation	50/60Hz ± 0.1% in battery mode								
Waveform	Pure sine wave								
Power factor	0.9								
Voltage distortion (THDv)	≤ 1% (linear load), ≤ 5% (non-linear load)								
Crest factor	3:1								
Overload	105% - 110% for 60mins, 110% - 125% for 10mins								
BATTERIES									
DC voltage	VRLA - Sealed Lead acid maintenance free battery: 360Vdc as default; Optional Lithium iron phosphate battery: 384Vdc as default								
Number of batteries	VRLA: 12V * 30pcs (support 28-30pcs) Lithium iron phosphate battery: 3.2V * 120pcs (support 112/120pcs)								
Charging current	Charging rate (settable) * battery capacity (settable) * number of battery group (settable)								
SYSTEM									
Efficiency	In line mode: Max. 93%; ECO mode: ≥ 98%								
Max. number of parallel connections	6								
Protections	Short-circuit, overload, overvoltage, undervoltage, low battery, overtemperature, fan failure								
Communications	RS232 / RS485 / intelligent slot / dry contacts (standard). SNMP card (optional)								
EMI	EN62040-2								
EMS	IEC61000-4-2 (ESD), IEC61000-4-3 (RS), IEC61000-4-4 (EFT), IEC61000-4-5 (surge)								
OTHERS									
Operation temperature	0 – 40°C								
Storage temperature	-25°C – 55°C (without batteries)								
Relative humidity	0 – 95% (non-condensing)								
Altitude	≤ 1000m (derating 1% for each additional 100m)								
IP rating	IP 20								
Noise level at 1m	65dB								
Dimensions (W*D*H) mm	400*800*1100					600*700*1500		700*800*1700	
Net weight (kg)	158	165	175	210	260	460	590	630	690

- All specifications are subject to change without notice
- Custom-made specifications are acceptable
- This product is applicable to industrial, commercial, financial, rail transit and other industries applications, but not available for life support systems such as heart-lung machines, medical ventilators and dialysis equipment.
- For critical systems related to public safety or significant economic benefits, dual power system is required to power the load.