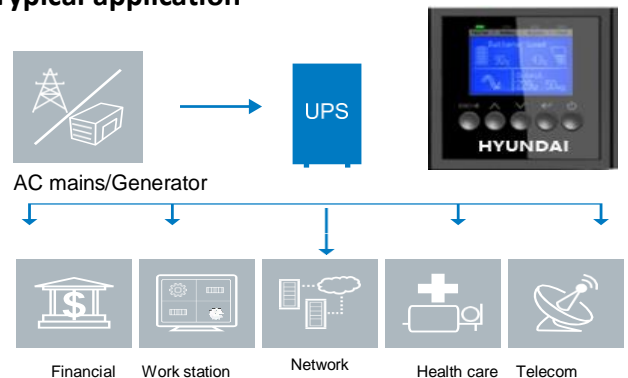


## Key features

- True online double-conversion design with high adaptability to harsh mains conditions, VFI technology.
- DSP design enables precise and reliable control
- High efficiency results in energy saving
- Supports energy-saving ECO mode
- Compact size requiring small installation space
- USB HID enable monitoring on UPS without software installation
- Intelligent communication slot enables remote monitoring
- Programmable LCD display for quick UPS parameters configuration
- Low audible noise at typical load
- Battery hot swappable (3KVA)

## Typical application



## Product specification

## INNOVA G2 Unity RT series 3KVA-10KVA

Model name		HD-3KRT	HD-6KRTS	HD-10KRTS
General	Technology	True online double conversion- VFI technology		
	Design	Rack-mount 19" or Tower		
	Capacity	3KVA	6KVA	10KVA
	Generator connect	Generator compatible		
	Auto restart	Automatically restarts when mains power is restored		
Efficiency	Online mode	≥93%	≥94%	
	ECO mode	≥97%	≥98%	
Input performance	Rated voltage at 100% load	Single phase 200/208/220/230/240V	Single phase 208/220/230/240V	
	Voltage range	160-300V 100% load; 110-160V( derating to 50% load linearly)	110-276V 100% load; 110-160V( derating to 50% load linearly)	
	Rated frequency	50Hz/60Hz		
	Frequency range	40-70Hz; (50Hz (45Hz-55Hz) or 60Hz (54Hz-66Hz)		
	PF	>0.99		
	THDi	<5% at full load	<3% at full load	
Input connection		Socket IEC C20	hardware terminnal connection	
Output performance	Phase	1 phase		
	Rated voltage	208/220/230/240V (Selectable)	220/230/240V (Selectable)	
	Voltage accuracy	±1%		
	Rated frequency	50Hz/60Hz		
	Frequency range	Synchronized with utility in main mode; ±0.1% in battery mode		
	Capacity	3KVA/3KW	6KVA/6KW	10KVA/10KW
	Maximum PF	1		
	THDu	<1% linear load <5% non linear load		
	Wave form	Pure sine wave		
	Transfer time	0ms (AC to Baterry mode); <4ms(Inverter to Bypass mode)		
	Crest Ratio	max 3:1		
	Overload (online mode)	100%<load≤105% continuous; 105%< load ≤130% for ≥1 minutes; 130<load≤150% for 30 seconds;>150% for ≥500ms.	100%<load≤105% continuous;105%< load ≤125% for ≥10 minutes; 125<load≤150% for 30 seconds;>150% for ≥500ms.	
	Overload (Bypass mode)	≤130% continuous; 130%< load ≤180% for 500ms;>180% for ≥300ms.	≤130% continuous; 130%< load ≤150% for 10s;>150% for ≥500ms.	
Output connection	Wiring/socket	Socket IEC*8	L/N/PE hardware terminnal connection	
Batteries	Voltage	192VDC(192-240VDC adjustable)		
	Type	VRLA Hyundai Battery 12V (Sealed lead-acid maintenance free battery with battery life ≥3 year)		
	Capacity(AH)	6pcs*12V/9Ah	16pcs*12V/9Ah	
	Backup time at PF=1.0	≥75% load ≥6mins	100% load ≥7mins	100% load ≥3mins
	Battery managements	Smart management function helps the UPS switch to continuous charging mode, Smart charging time, Automatic battery test, Low battery warning, Deep Discharge		
Maximum connect external battery module quantity		4	6	
Charger	Max charging current	1.5A(0-12A adjustalbe)	1.4A(0-4A adjustable)	2A(0-4A adjustable)
	Recharging time	3h to 90%	3h to 90%	
	Parallel	Optional (up to 3)		
	Operating modes	Online, ECO, battery, bypass, manual bypass, frequency converter		
	Protections	Protection by Aptomat and Fuse When UPS Short-circuit, overload, overvoltage, undervoltage, low battery, fan failure...		

Operating		Auto transfer to bypass when UPS overload and fault.			
	Display control	LCD display with Manage and monitor UPS operations, load, overload, over temperature, backup time, voltage, frequency, Battery capacity, low battery, charger fault , battery not connected (UPS fault), ..			
		LED with alarms and sounds when wrong shutdown, low battery, overload, over temperature, charger fault, battery not connected (UPS fault),...			
	Communications	RS232 with UPS managements program via RS232 computer connection protocol. Auto shutdown or control PC/server before UPS stops working			
HMI	USB	USB 2.0 with HID			
	RS232	Yes(DB9)			
	Dry in/out	1 programble dry in; 1 programble dry out			
	EPO	yes			
	Intelignet slot	yes(for long card)			
	Network card	Optional, NMC long card			
	Modbus card	Optional,CMC/Modbus Long Card			
	Dry contactor card	Optional, AS400 Long Card			
	Winpower software	Monitor/ Managements software			
Physical performance	Dimension(W*D*H)MM	5U height including 438*573*86.2 (power module, 2U)		5U height including 438*573*86.2 (power module, 2U) 438*593*129 (Battery, 3U)	
	Net weight	26.2kg		14kg/52kg	16kg/52kg
	IP protection level	IP20			
Environment	Operating temperature	0-40°C			
	Relative Humidity	0-95%(non-condensing)			
	Operating Altitude	0-3000m (the load derating 1% every up 100m @1000-3000m)			
	Acoustic Noise	<50dBA		<55dBA	
Certification		IEC/EN 62040-1/2/3; ISO 9001			
Accessory	EBM cable	yes(in EBM)			
	USB cable	Yes			
	RS232 cable	Yes			
	Rail kit	Optional	Optional	Optional	Optional
	Tower Feet	Yes	Yes	Yes	Yes
	Rack ear	Yes	Yes	Yes	Yes
	Manual	Yes	Yes	Yes	Yes

