HYUNDAI

1 phase online RT series
6KVA-10KVA

INNOVA Unity RT 6-10KVA MBP

sinewave output | LCD display | Up to 9 min backup time | built-in batteries | HID
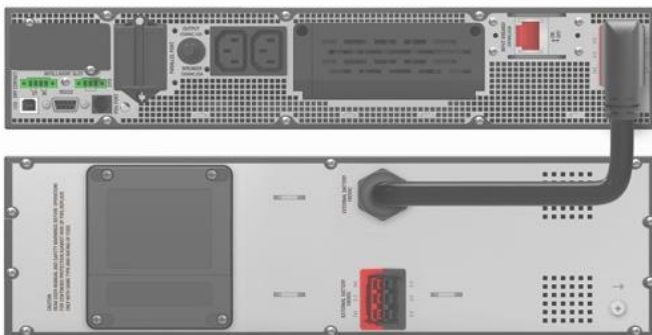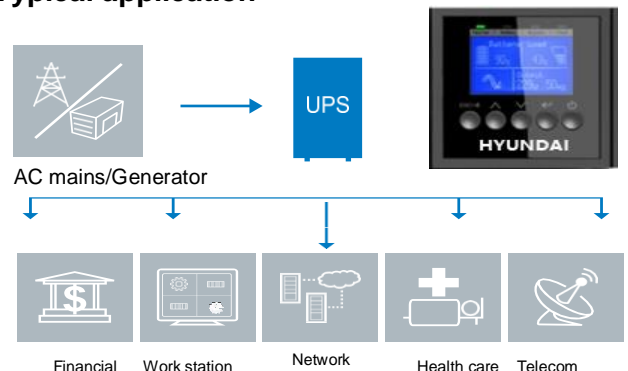
Key features

- True double-conversion design with high adaptability to harsh mains conditions
- DSP design enables precise and reliable control
- High efficiency results in energy saving
- Supports energy-saving ECO mode
- Compact size requiring small installation space
- Built-in OVCD protection, fan lock detection, over temperature detection, overload warning to enhance the product reliability
- 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
- MBP+PDU with load segment control (optinal)

Typical application

AC mains/Generator → UPS

Financial | Work station | Network | Health care | Telecom

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Product specification

1phase online RT series 6KVA-10KVA

Model name		HD-6KRT	HD-6KRS	HD-10KRT	HD-10KRS
General	Technology	True online double conversion technology			
	Design	Rack-mount 19"			
	Capacity	6000VA/6000W	6000VA/6000W	10000VA/10000W	10000VA/10000W
Efficiency	Double coversion mode	96%		97%	
	ECO mode	98%		99%	
Input performance	Rated voltage	220/230/240V			
	Voltage range	110-276V 100% load 110-160V(derating to 50% load linearly)			
	Rated frequency	50Hz/60Hz			
	Frequency range	±10%(45Hz-55Hz or 54Hz-66Hz @ load>60%)			
	PF	>0.995			
	THDi	<3% linear load <5% non linear load			
Input connection		L/N/PE hardware terminnal connection			
Output performance	Rated voltage	220/230/240V			
	Voltage accuracy	±1%			
	Rated frequency	50Hz/60Hz			
	Frequency range	Synchronized with utility in main mode; ±0.1% in battery mode			
	Maximum PF	1			
	THDu	<1% linear load <5% non linear load			
	Transfer time	0ms			
	Crest Ratio	max 3:1			
	Overload	100%<load≤105% continuous. 105%< load ≤125% for 10 minutes 125<load≤150% for 30 seconds. >150% for 500ms.			
Output connection	Wiring/socket	L/N/PE hardware terminnal connection. Aptomat/Input-output breaker(Hard wiring with terminal block)			
	Load segment control	Optional (need MBP model)			
	IEC standards and switchable	IEC-320C13*4pins and IEC-320C19*4pins			
Battery	Voltage	240VDC(192~240VDC adjustable)			
	Type	VRLA (Sealed lead-acid maintenance free battery)			
	Capacity(AH)	20*12V/9Ah, 16~20pcs adjustable	NA	20*12V/9Ah, 16~20pcs adjustable	NA
	Backup time(PF=0.9; 100% load)	≥6min	NA	≥3min	NA
Maximum connect external battery module quantity		15			
Charger	Charging current	1.4A(0-4A adjustalbe)	4A(0-12A adjustable)	2A(0-4A adjustable)	4A(0-12A adjustable)
	Recharging time	3h to 90%	NA	3h to 90%	NA
	CVCF	Yes (derating to 60% load)			
	Parallel	Optional (up to 4)			

Operating	Operating modes	Online, battery, bypass, manual bypass, high efficiency			
	Protections	Protection by Aptomat and Fuse When UPS Short-circuit, overload, overvoltage, undervoltage, low battery, fan failure… Auto transfer to bypass when UPS overload and fault.			
	Display control	LCD display with Manage and monitor UPS operations, load, backup time, voltage, frequency, battery, fault..			
		LED with alarms and sounds when wrong shutdown, low battery, overload, fault..			
	Communications	RS232 with UPS managements program via RS232 computer connection protocol. Auto shutdown or control PC/server before UPS stops working			
HMI	Display	Dot matrix LCD, rotatable manually			
	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			
	Monitor software	Winpower			
Physical performance	Dimension(W*D*H)MM	5U height including 438*573*86.2 (power module, 2U) 438*593*129 (Battery, 3U)	438*573*86.2 (power module, 2U)	5U height including 438*573*86.2 (power module, 2U) 438*593*129 (Battery, 3U)	438*573*86.2 (power module, 2U)
	Net weight(KG)	59.3	13.6	67.2	15.5
	IP protection level	IP20			
Environment	Operating temperature	0-50ºC(power derating to 50% @40-50ºC）			
	Relative Humidity	0-95%			
	Operating Altitude	0~3000m（the load derating 1 % every up 100m @1000~3000m）			
	Acoustic Noise	<50dB @ typical load with battery fully charged		<55dB @ typical load with battery fully charged	
Certification		CE,IEC/EN 62040			
EMI	Conduction/Radiation	C3			
EMS	ESD	IEC/EN 61000-4-2			
	RS	IEC/EN 61000-4-3			
	EFT	IEC/EN 61000-4-4			
	Surge	IEC/EN 61000-4-5			
Accessory	Maintenance bypass switch	Optional			
	Input power cable	10m cable 2*6mm			
	Output power cable	2 terminal connection cable C13 to C14 socket standards			
	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