

Online UPS

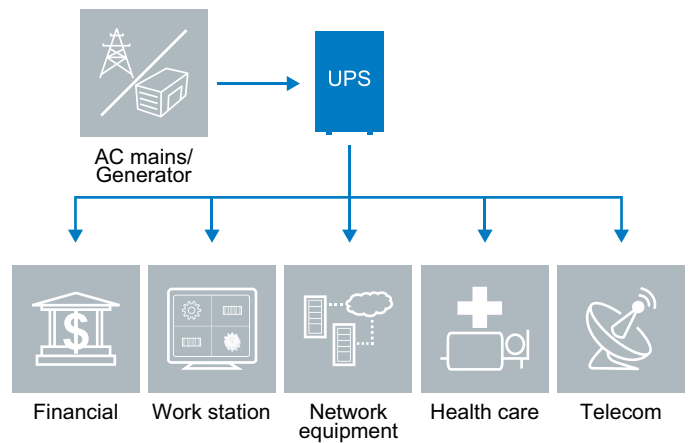
INNOVA T



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.
- Output power factor (0.9).
- Precise output voltage regulation.
- Supports energy-saving ECO mode.
- Intelligent communication slot enables remote monitoring.
- LCD display shows easy-to-understand operational status.

Typical application



PHOENIXTEC

Product specification

Model name		INNOVA 1K	INNOVA 1KS	INNOVA 2K	INNOVA 2KS
Power rating	VA/Watt	1000VA/900W*	1000VA/900W*	2000VA/1800W*	2000VA/1800W*
Efficiency	Double conversion mode	87%	87%	88%	88%
	ECO mode	93%	93%	94%	94%
Input performance	Voltage range	176-300V 100% load, 110-176V derating to 50% load linearly	176-300V 100% load, 110-176V derating to 50% load linearly	176-300V 100% load, 110-176V derating to 50% load linearly	176-300V 100% load, 110-176V derating to 50% load linearly
	Rated frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
	Frequency range	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60%)	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60%)	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60%)	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60%)
	PF	>0.99	>0.99	>0.99	>0.99
	THDI	<5%	<5%	<5%	<5%
Input connection	Wiring/socket	IEC C14	IEC C14	IEC C14	IEC C20
Output performance	Rated voltage	200/208/220/230/240V **	200/208/220/230/240V **	200/208/220/230/240V **	200/208/220/230/240V **
	Rated frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
	Maximum PF	0.9	0.9	0.9	0.9
	Voltage accuracy	±2%	±2%	±2%	±2%
	THDv	<3% linear load <5% non linear load	<3% linear load <5% non linear load	<3% linear load <5% non linear load	<3% linear load <5% non linear load
	Transfer time	0ms(4ms @ line <-> bypass;10ms @ ECO <-> Inverter)	0ms(4ms @ line <-> bypass;10ms @ ECO <-> Inverter)	0ms(4ms @ line <-> bypass;10ms @ ECO <-> Inverter)	0ms(4ms @ line <-> bypass;10ms @ ECO <-> Inverter)
	Crest Ratio	max 3:1	max 3:1	max 3:1	max 3:1
	Overload (line mode)	100%<load≤105% continuous. 105%< load ≤110% for 1 minutes 110%< load ≤125% for 30 seconds 125%<load≤150% for 10 seconds. >150% for 1s.	100%<load≤105% continuous. 105%< load ≤110% for 1 minutes 110%< load ≤125% for 30 seconds 125%<load≤150% for 10 seconds. >150% for 1s.	100%<load≤105% continuous. 105%< load ≤110% for 1 minutes 110%< load ≤125% for 30 seconds 125%<load≤150% for 10 seconds. >150% for 1s.	100%<load≤105% continuous. 105%< load ≤110% for 1 minutes 110%< load ≤125% for 30 seconds 125%<load≤150% for 10 seconds. >150% for 1s.
Output connection	Wiring/socket	3 x IEC C13	3 x IEC C13	6 x IEC C13	6 x IEC C13
Battery	Voltage	36VDC	36VDC	96VDC	96VDC
	Capacity (AH)	3 x 12V/7Ah	NA	8 x 12V/7Ah	NA
	Backup time (100% load)***	4min	NA	8min	NA
Maximum connect external battery module quantity	External battery module quantity	4	4	4	4
Charger	Maximum charging current	1A	8A	1A	8A
	Recharging time	5h to 90%	NA	5h to 90%	NA
Other working mode	CVCF	Yes (derating to 60% load)	Yes (derating to 60% load)	Yes (derating to 60% load)	Yes (derating to 60% load)
	Parallel	no	no	no	no

NOTE: *1000VA/900W(0~30°C); 1000VA/800W(30~45°C); 2000VA/1800W(0~30°C); 2000VA/1600W(30~45°C); 3000VA/2700W(0~30°C); 3000VA/2400W(30~45°C).

**1-3K derating 10% at 208V, derating 20% at 200V; 6-10K derating 10% at 208V; 10-20K 3-1 derating 10% at 200V.

*** 1~3K is PF 0.8 100% load; 6-20K is PF 0.9 100% load.

Product specification

Model name		INNOVA 1K	INNOVA 1KS	INNOVA 2K	INNOVA 2KS
HMI(human-machine interface)	Display	segment LCD	segment LCD	segment LCD	segment LCD
	USB	USB 1.1	USB 1.1	USB 1.1	USB 1.1
	RS232	Optional	Optional	Optional	Optional
	EPO	yes	yes	yes	yes
	Intelligent slot	yes(for long card)	yes(for long card)	yes(for long card)	yes(for long card)
	Network card	Optional, NMC long card	Optional, NMC long card	Optional, NMC long card	Optional, NMC long card
	Modbus card	Optional,CMC/Modbus Long Card	Optional,CMC/Modbus Long Card	Optional,CMC/Modbus Long Card	Optional,CMC/Modbus Long Card
	Dry contactor card	Optional,AS400 Long Card	Optional,AS400 Long Card	Optional,AS400 Long Card	Optional,AS400 Long Card
	Monitor software	Winpower	Winpower	Winpower	Winpower
Physical performance	Dimension (W*D*H) mm	145*400*220	145*400*220	192*460*347	192*460*347
	Net Weight (KG)	13	7	31	13
	IP protection level	IP20	IP20	IP20	IP20
Environment	Operating temperature	0-45°C (power derating to 80% @40-45°C)	0-45°C (power derating to 80% @40-45°C)	0-45°C (power derating to 80% @40-45°C)	0-45°C (power derating to 80% @40-45°C)
	Relative Humidity	0-95%	0-95%	0-95%	0-95%
	Operating Altitude	0~3000m (the load derating 1 % every up 100m @1000~3000m)	0~3000m (the load derating 1 % every up 100m @1000~3000m)	0~3000m (the load derating 1 % every up 100m @1000~3000m)	0~3000m (the load derating 1 % every up 100m @1000~3000m)
	Acoustic Noise	<45dB @ typical load with battery fully charged	<45dB @ typical load with battery fully charged	<50dB @ typical load with battery fully charged	<50dB @ typical load with battery fully charged
Certification	Certification/standard	CE,IEC/EN 62040	CE,IEC/EN 62040	CE,IEC/EN 62040	CE,IEC/EN 62040
EMI	Conduction/Radiation	C1	C1	C1	C1
EMS	ESD	IEC/EN 61000-4-2	IEC/EN 61000-4-2	IEC/EN 61000-4-2	IEC/EN 61000-4-2
	RS	IEC/EN 61000-4-3	IEC/EN 61000-4-3	IEC/EN 61000-4-3	IEC/EN 61000-4-3
	EFT	IEC/EN 61000-4-4	IEC/EN 61000-4-4	IEC/EN 61000-4-4	IEC/EN 61000-4-4
	Surge	IEC/EN 61000-4-5	IEC/EN 61000-4-5	IEC/EN 61000-4-5	IEC/EN 61000-4-5
Accessory	Maintenance bypass switch	NA	NA	NA	NA
	Input power cable	yes	yes	yes	yes
	Output power cable	No	No	No	No
	EBM cable	yes(in EBM)	yes(in EBM)	yes(in EBM)	yes(in EBM)
	USB cable	Optional	Optional	Optional	Optional
	RS232 cable	Optional	Optional	Optional	Optional
	Manual	Yes	Yes	Yes	Yes

NOTE: *1000VA/900W(0~30°C); 1000VA/800W(30~45°C); 2000VA/1800W(0~30°C); 2000VA/1600W(30~45°C); 3000VA/2700W(0~30°C); 3000VA/2400W(30~45°C).

**1-3K derating 10% at 208V, derating 20% at 200V; 6-10K derating 10% at 208V; 10-20K 3-1 derating 10% at 200V.

*** 1~3K is PF 0.8 100% load; 6-20K is PF 0.9 100% load.

Product specification

Model name		INNOVA 3K	INNOVA 3KS	INNOVA 6K	INNOVA 6KS
Power rating	VA/Watt	3000VA/2700W*	3000VA/2700W*	6000VA/5400W	6000VA/5400W
Efficiency	Double conversion mode	88%	88%	92%	92%
	ECO mode	94%	94%	96%	96%
Input performance	Voltage range	176-300V 100% load, 110-176V derating to 50% load linearly	176-300V 100% load, 110-176V derating to 50% load linearly	176-276V 100% load, 110-176V derating to 50% load linearly	176-276V 100% load, 110-176V derating to 50% load linearly
	Rated frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
	Frequency range	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60%)	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60%)	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60%)	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60%)
	PF	>0.99	>0.99	>0.99	>0.99
	THDI	<5%	<5%	<5%	<5%
Input connection	Wiring/socket	IEC C20	L/N/PE hardware terminal connection	L/N/PE hardware terminal connection	L/N/PE hardware terminal connection
Output performance	Rated voltage	200/208/220/230/240V **	200/208/220/230/240V **	208/220/230/240V**	208/220/230/240V**
	Rated frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
	Maximum PF	0.9	0.9	0.9	0.9
	Voltage accuracy	±2%	±2%	±1%	±1%
	THDv	<3% linear load <5% non linear load	<3% linear load <5% non linear load	<2% linear load <5% non linear load	<2% linear load <5% non linear load
	Transfer time	0ms(4ms @ line <-> bypass;10ms @ ECO <-> Inverter)	0ms(4ms @ line <-> bypass;10ms @ ECO <-> Inverter)	0ms(10ms @ ECO->Inverter)	0ms(10ms @ ECO->Inverter)
	Crest Ratio	max 3:1	max 3:1	max 3:1	max 3:1
	Overload (line mode)	100%<load≤105% continuous. 105%< load ≤110% for 1 minutes 110%< load ≤125% for 30 seconds 125%<load≤150% for 10 seconds. >150% for 1s.	100%<load≤105% continuous. 105%< load ≤110% for 1 minutes 110%< load ≤125% for 30 seconds 125%<load≤150% for 10 seconds. >150% for 1s.	100%<load≤105% continuous. 105%< load ≤125% for 2 minutes 125%<load≤150% for 30 seconds. >150% for 300ms.	100%<load≤105% continuous. 105%< load ≤125% for 2 minutes 125%<load≤150% for 30 seconds. >150% for 300ms.
Output connection	Wiring/socket	4 x IEC C13 + hardware terminal	4 x IEC C13 + hardware terminal	L/N/PE hardware terminal connection	L/N/PE hardware terminal connection
Battery	Voltage	96VDC	96VDC	240VDC	240VDC
	Capacity (AH)	8 x 12V/7Ah	NA	20*12V/7Ah	NA
	Backup time (100% load)***	4min	NA	5min	NA
Maximum connect external battery module quantity	External battery module quantity	4	4	NA	6
Charger	Maximum charging current	1A	8A	1.4A	4A
	Recharging time	5h to 90%	NA	5h to 90%	NA
Other working mode	CVCF	Yes (derating to 60% load)	Yes (derating to 60% load)	Yes (derating to 60% load)	Yes (derating to 60% load)
	Parallel	no	no	Optional (up to 4)	Optional (up to 4)

NOTE: *1000VA/900W(0~30°C); 1000VA/800W(30~45°C); 2000VA/1800W(0~30°C); 2000VA/1600W(30~45°C); 3000VA/2700W(0~30°C); 3000VA/2400W(30~45°C).

**1-3K derating 10% at 208V, derating 20% at 200V; 6-10K derating 10% at 208V; 10-20K 3-1 derating 10% at 200V.

*** 1~3K is PF 0.8 100% load; 6-20K is PF 0.9 100% load.

Product specification

Model name		INNOVA 3K	INNOVA 3KS	INNOVA 6K	INNOVA 6KS
HMI(human-machine interface)	Display	segment LCD	segment LCD	Dot matrix LCD	Dot matrix LCD
	USB	USB 1.1	USB 1.1	USB 1.1	USB 1.1
	RS232	Optional	Optional	Yes(DB9)	Yes(DB9)
	EPO	yes	yes	yes	yes
	Intelligent slot	yes(for long card)	yes(for long card)	yes(for long card)	yes(for long card)
	Network card	Optional, NMC long card	Optional, NMC long card	Optional, NMC long card	Optional, NMC long card
	Modbus card	Optional,CMC/Modbus Long Card	Optional,CMC/Modbus Long Card	Optional,CMC/Modbus Long Card	Optional,CMC/Modbus Long Card
	Dry contactor card	Optional,AS400 Long Card	Optional,AS400 Long Card	Optional,AS400 Long Card	Optional,AS400 Long Card
	Monitor software	Winpower	Winpower	Winpower	Winpower
Physical performance	Dimension (W*D*H) mm	192*460*347	192*460*347	260*550*708	260*550*708
	Net Weight (KG)	31	13	80	25.5
	IP protection level	IP20	IP20	IP20	IP20
Environment	Operating temperature	0-45°C (power derating to 80% @40-45°C)	0-45°C (power derating to 80% @40-45°C)	0-45°C	0-45°C
	Relative Humidity	0-95%	0-95%	0-95%	0-95%
	Operating Altitude	0~3000m (the load derating 1 % every up 100m @1000~3000m)	0~3000m (the load derating 1 % every up 100m @1000~3000m)	0~3000m (the load derating 1 % every up 100m @1000~3000m)	0~3000m (the load derating 1 % every up 100m @1000~3000m)
	Acoustic Noise	<50dB @ typical load with battery fully charged	<50dB @ typical load with battery fully charged	<50dB @ typical load with battery fully charged	<50dB @ typical load with battery fully charged
Certification	Certification/standard	CE,IEC/EN 62040	CE,IEC/EN 62040	CE,IEC/EN 62040	CE,IEC/EN 62040
EMI	Conduction/Radiation	C1	C1	C3	C3
EMS	ESD	IEC/EN 61000-4-2	IEC/EN 61000-4-2	IEC/EN 61000-4-2	IEC/EN 61000-4-2
	RS	IEC/EN 61000-4-3	IEC/EN 61000-4-3	IEC/EN 61000-4-3	IEC/EN 61000-4-3
	EFT	IEC/EN 61000-4-4	IEC/EN 61000-4-4	IEC/EN 61000-4-4	IEC/EN 61000-4-4
	Surge	IEC/EN 61000-4-5	IEC/EN 61000-4-5	IEC/EN 61000-4-5	IEC/EN 61000-4-5
Accessory	Maintenance bypass switch	NA	NA	Standard offer	Standard offer
	Input power cable	yes	No	NA	NA
	Output power cable	No	NA	NA	NA
	EBM cable	yes(in EBM)	yes(in EBM)	yes(in EBM)	yes(in EBM)
	USB cable	Optional	Optional	Yes	Yes
	RS232 cable	Optional	Optional	Optional	Optional
	Manual	Yes	Yes	Yes	Yes

NOTE: *1000VA/900W(0~30°C); 1000VA/800W(30~45°C); 2000VA/1800W(0~30°C); 2000VA/1600W(30~45°C); 3000VA/2700W(0~30°C); 3000VA/2400W(30~45°C).

**1-3K derating 10% at 208V, derating 20% at 200V; 6-10K derating 10% at 208V; 10-20K 3-1 derating 10% at 200V.

*** 1~3K is PF 0.8 100% load; 6-20K is PF 0.9 100% load.

Product specification

Model name		INNOVA 10K	INNOVA 10KS	Combo 10K	INNOVA 3/1 10K	INNOVA 3/1 20K
Power rating	VA/Watt	10000VA/9000W	10000VA/9000W	10000VA/9000W	10000VA/9000W	20000VA/18000W
Efficiency	Double conversion mode	93%	93%	93%	93%	93%
	ECO mode	96%	96%	97%	98%	98%
Input performance	Voltage range	176-276V 100% load, 110-176V derating to 50% load linearly	176-276V 100% load, 110-176V derating to 50% load linearly	176-276V (305-478) 100% load, 110-176V (191-305) derating to 50% load linearly	176-276V (305-478) 100% load, 110-176V (191-305) derating to 50% load linearly	176-276V (305-478) 100% load, 110-176V (191-305) derating to 50% load linearly
	Rated frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
	Frequency range	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60%)	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60%)	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60%)	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60%)	40Hz-70Hz(45Hz-55Hz 54Hz-66Hz @ load>60%)
	PF	>0.99	>0.99	>0.99	>0.99	>0.99
	THDI	<5%	<5%	<5%	<5%	<5%
Input connection	Wiring/socket	L/N/PE hardware terminnal connection	L/N/PE hardware terminnal connection	L1/L2/L3/N/PE or L/N/PE hardware terminnal connection	L1/L2/L3/N/PE or L/N/PE hardware terminnal connection	L1/L2/L3/N/PE or L/N/PE hardware terminnal connection
Output performance	Rated voltage	208/220/230/240V**	208/220/230/240V**	200/208/220/230/240V**	200/208/220/230/240V**	200/208/220/230/240V**
	Rated frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
	Maximum PF	0.9	0.9	0.9	0.9	0.9
	Voltage accuracy	±1%	±1%	±1%	±1%	±1%
	THDv	<2% linear load <5% non linear load	<2% linear load <5% non linear load	<2% linear load <5% non linear load	<2% linear load <5% non linear load	<2% linear load <5% non linear load
	Transfer time	0ms(10ms @ ECO->Inverter)	0ms(10ms @ ECO->Inverter)	0ms(10ms @ ECO->Inverter)	0ms(10ms @ ECO->Inverter)	0ms(10ms @ ECO->Inverter)
	Crest Ratio	max 3:1	max 3:1	max 3:1	max 3:1	max 3:1
	Overload (line mode)	100%<load≤105% continuous. 105%< load ≤125% for 2 minutes 125<load≤150% for 30 seconds. >150% for 300ms.	100%<load≤105% continuous. 105%< load ≤125% for 2 minutes 125<load≤150% for 30 seconds. >150% for 300ms.	100%<load≤110% 5 minutes 110%< load ≤130% for 1 minutes 130<load≤150% for 10 seconds. >150% for 2 second.	100%<load≤110% 5 minutes 110%< load ≤130% for 1 minutes 130<load≤150% for 10 seconds. >150% for 2 second.	100%<load≤110% 5 minutes 110%< load ≤130% for 1 minutes 130<load≤150% for 10 seconds. >150% for 2 second.
Output connection	Wiring/socket	L/N/PE hardware terminnal connection	L/N/PE hardware terminnal connection	L/N/PE hardware terminnal connection+ 2*IEC C13	L/N/PE hardware terminnal connection	L/N/PE hardware terminnal connection
Battery	Voltage	240VDC	240VDC	240VDC	288VDC	288VDC
	Capacity (AH)	20*12V/9Ah	NA	20*12V/9Ah	2*24*12V/7Ah	2*24*12V/9Ah
	Backup time (100% load)***	4min	NA	3.5min	5min	5min
Maximum connect external battery module quantity	External battery module quantity	NA	6	6	6	6
Charger	Maximum charging current	1.4A	4A	1.4A	4A	4A
	Recharging time	8h to 90%	NA	8h to 90%	3h to 90%	5h to 90%
Other working mode	CVCF	Yes (derating to 60% load)	Yes (derating to 60% load)	Yes (derating to 60% load)	Yes (derating to 60% load)	Yes (derating to 60% load)
	Parallel	Optional (up to 4)	Optional (up to 4)	Optional (up to 4)	Optional (up to 4)	Optional (up to 4)

NOTE: *1000VA/900W(0~30°C); 1000VA/800W(30~45°C); 2000VA/1800W(0~30°C); 2000VA/1600W(30~45°C); 3000VA/2700W(0~30°C); 3000VA/2400W(30~45°C).

**1-3K derating 10% at 208V, derating 20% at 200V; 6-10K derating 10% at 208V; 10-20K 3-1 derating 10% at 200V.

*** 1~3K is PF 0.8 100% load; 6-20K is PF 0.9 100% load.

Product specification

Model name		INNOVA 10K	INNOVA 10KS	Combo 10K	INNOVA 3/1 10K	INNOVA 3/1 20K
HMI(human-machine interface)	Display	Dot matrix LCD	Dot matrix LCD	Dot matrix LCD	Dot matrix LCD	Dot matrix LCD
	USB	USB 1.1	USB 1.1	USB 1.1	USB 1.1	USB 1.1
	RS232	Yes(DB9)	Yes(DB9)	Yes(DB9)	Yes(DB9)	Yes(DB9)
	EPO	yes	yes	yes	yes	yes
	Intelligent slot	yes(for long card)	yes(for long card)	yes(for long card)	yes(for long card)	yes(for long card)
	Network card	Optional, NMC long card	Optional, NMC long card	Optional, NMC long card	Optional, NMC long card	Optional, NMC long card
	Modbus card	Optional,CMC/Modbus Long Card	Optional,CMC/Modbus Long Card	Optional,CMC/Modbus Long Card	Optional,CMC/Modbus Long Card	Optional,CMC/Modbus Long Card
	Dry contactor card	Optional,AS400 Long Card	Optional,AS400 Long Card	Optional,AS400 Long Card	Optional,AS400 Long Card	Optional,AS400 Long Card
	Monitor software	Winpower	Winpower	Winpower	Winpower	Winpower
Physical performance	Dimension (W*D*H) mm	260*550*708	260*550*708	260*550*708	350*650*890	350*650*890
	Net Weight (KG)	84	29.5	85	115	183
	IP protection level	IP20	IP20	IP20	IP20	IP20
Environment	Operating temperature	0-45°C	0-45°C	0-45°C	0-45°C	0-45°C
	Relative Humidity	0-95%	0-95%	0-95%	0-95%	0-95%
	Operating Altitude	0~3000m (the load derating 1 % every up 100m @1000~3000m)	0~3000m (the load derating 1 % every up 100m @1000~3000m)	0~3000m (the load derating 1 % every up 100m @1000~3000m)	0~3000m (the load derating 1 % every up 100m @1000~3000m)	0~3000m (the load derating 1 % every up 100m @1000~3000m)
	Acoustic Noise	<55dB @ typical load with battery fully charged	<55dB @ typical load with battery fully charged	<55dB @ typical load with battery fully charged	<55dB @ typical load with battery fully charged	<55dB @ typical load with battery fully charged
Certification	Certification/standard	CE,IEC/EN 62040	CE,IEC/EN 62040	CE,IEC/EN 62040	CE,IEC/EN 62040	CE,IEC/EN 62040
EMI	Conduction/Radiation	C3	C3	C3	C3	C3
EMS	ESD	IEC/EN 61000-4-2	IEC/EN 61000-4-2	IEC/EN 61000-4-2	IEC/EN 61000-4-2	IEC/EN 61000-4-2
	RS	IEC/EN 61000-4-3	IEC/EN 61000-4-3	IEC/EN 61000-4-3	IEC/EN 61000-4-3	IEC/EN 61000-4-3
	EFT	IEC/EN 61000-4-4	IEC/EN 61000-4-4	IEC/EN 61000-4-4	IEC/EN 61000-4-4	IEC/EN 61000-4-4
	Surge	IEC/EN 61000-4-5	IEC/EN 61000-4-5	IEC/EN 61000-4-5	IEC/EN 61000-4-5	IEC/EN 61000-4-5
Accessory	Maintenance bypass switch	Standard offer	Standard offer	Standard offer	Standard offer	Standard offer
	Input power cable	NA	NA	NA	NA	NA
	Output power cable	NA	NA	NA	NA	NA
	EBM cable	yes(in EBM)	yes(in EBM)	yes(in EBM)	yes(in EBM)	yes(in EBM)
	USB cable	Yes	Yes	Yes	Yes	Yes
	RS232 cable	Optional	Optional	Optional	Optional	Optional
	Manual	Yes	Yes	Yes	Yes	Yes

NOTE: *1000VA/900W(0~30°C); 1000VA/800W(30~45°C); 2000VA/1800W(0~30°C); 2000VA/1600W(30~45°C); 3000VA/2700W(0~30°C); 3000VA/2400W(30~45°C).

**1~3K derating 10% at 208V, derating 20% at 200V; 6~10K derating 10% at 208V; 10~20K 3-1 derating 10% at 200V.

*** 1~3K is PF 0.8 100% load; 6~20K is PF 0.9 100% load.

Product rear panel



INNOVA 1k



INNOVA 1ks



INNOVA 2k



INNOVA 2ks



INNOVA 3k



INNOVA 3ks



INNOVA 6k



INNOVA 10k



INNOVA 3/1 10K



INNOVA 3/1 20K

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