

Online UPS

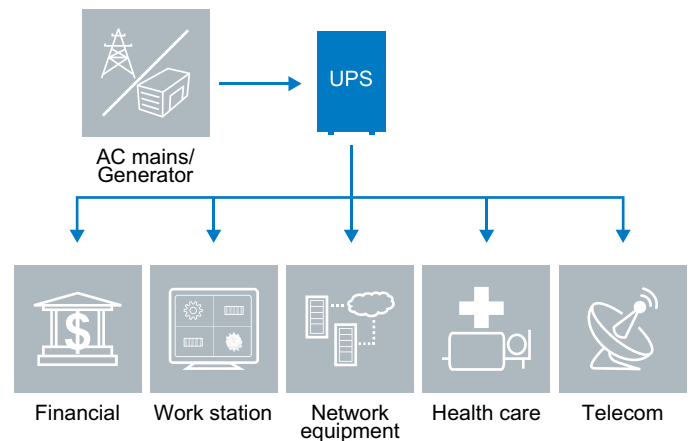
INNOVA G2 T 1-3KVA



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

Typical application



PHOENIXTEC

Product specification

Model name		INNOVA G2 1K DIN T / INNOVA G2 1K IEC T	INNOVA G2 1KL DIN T / INNOVA G2 1KL IEC T	INNOVA G2 1.5K DIN T / INNOVA G2 1.5K IEC T	INNOVA G2 1.5KL DIN T / INNOVA G2 1.5KL IEC T
Power rating	VA/Watt	1000VA/900W	1000VA/900W	1500VA/1350W	1500VA/1350W
Efficiency	Double conversion mode	89%	89%	89%	89%
	ECO mode	Up to 97.5%	Up to 97.5%	Up to 97.5%	Up to 97.5%
Input performance	Voltage range	176-300V 100% load, 100-176V derating to 40% load linearly	176-300V 100% load, 100-176V derating to 40% load linearly	176-300V 100% load, 100-176V derating to 40% load linearly	176-300V 100% load, 100-176V derating to 40% 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 C14
Output performance	Rated voltage	220/230/240V	220/230/240V	220/230/240V	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	±1%	±1%	±1%	±1%
	THDv	<2% linear load <6% non linear load	<2% linear load <6% non linear load	<2% linear load <6% non linear load	<2% linear load <6% non linear load
	Transfer time	0ms(4ms @ line <-> bypass;10ms @ ECO <->In- verter)	0ms(4ms @ line <-> bypass;10ms @ ECO <->In- verter)	0ms(4ms @ line <-> bypass;10ms @ ECO <->In- verter)	0ms(4ms @ line <-> bypass;10ms @ ECO <->In- verter)
	Crest Ratio	max 3:1	max 3:1	max 3:1	max 3:1
	Overload (line mode)	100%<load≤105% continu- ous. 105%< load ≤130% for 60 second 130<load≤150% for 10 seconds. >150% for 0.3s.	100%<load≤105% continu- ous. 105%< load ≤130% for 60 second 130<load≤150% for 10 seconds. >150% for 0.3s.	100%<load≤105% continu- ous. 105%< load ≤130% for 60 second 130<load≤150% for 10 seconds. >150% for 0.3s.	100%<load≤105% continu- ous. 105%< load ≤130% for 60 second 130<load≤150% for 10 seconds. >150% for 0.3s.
Output connection	Wiring/socket	4*IEC C13 (optiona for Schuko and NEMA)	4*IEC C13 (optiona for Schuko and NEMA)	4*IEC C13 (optiona for Schuko and NEMA)	4*IEC C13 (optiona for Schuko and NEMA)
Battery	Voltage	24VDC	24VDC	24VDC	48VDC
	Capacity(AH)	2 x 12V/9Ah	NA	2 x 12V/9Ah	NA
	Backup time (PF=0.9; 100% load)	4min	NA	1min	NA
Maximum connect external battery module quantity	External battery module quantity	4(optional)	4	4(optional)	4
Charger	Maximum charging current	1.5A	6A	1.5A	6A
	Recharging time	4h to 90%	NA	4h 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

*Innova G2 tower 1K/1.5K/2K/3K has two version standard models. One is standard model can connect external battery module and another is standard model can not connect external battery module.

**EPO can be optional.

Product specification

Model name		INNOVA G2 1K DIN T / INNOVA G2 1K IEC T	INNOVA G2 1KL DIN T / INNOVA G2 1KL IEC T	INNOVA G2 1.5K DIN T / INNOVA G2 1.5K IEC T	INNOVA G2 1.5KL DIN T / INNOVA G2 1.5KL IEC T
HMI(human-machine interface)	Display	segment LCD	segment LCD	segment LCD	segment LCD
	USB	USB 2.0	USB 2.0	USB 2.0	USB 2.0
	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/ModbusLong Card	Optional,CMC/ModbusLong 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	144*228*356	102*346*228	144*228*356	102*390*327
	Net Weight(KG)	9.2	3.9	9.2	6.4
	IP protection level	IP20	IP20	IP20	IP20
Environment	Operating temperature	0-40°C	0-40°C	0-40°C	0-40°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	<40dB @ typical load with battery fully charged	<40dB @ typical load with battery fully charged	<40dB @ typical load with battery fully charged	<40dB @ 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	C2	C2	C2	C2
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

*Innova G2 tower 1K/1.5K/2K/3K has two version standard models. One is standard model can connect external battery module and another is standard model can not connect external battery module.

**EPO can be optional.

Product specification

Model name		INNOVA G2 2K DIN T / INNOVA G2 2K IEC T	INNOVA G2 2KL DIN T / INNOVA G2 2KL IEC T	INNOVA G2 3K DIN T / INNOVA G2 3K IEC T	INNOVA G2 3KL DIN T / INNOVA G2 3KL IEC T
Power rating		2000VA/1800W	3000VA/2700W	3000VA/2700W	3000VA/2700W
Efficiency		91%	91%	91%	91%
		Up to 98%	Up to 98%	Up to 98%	98%
Input performance	Voltage range	176-300V 100% load, 100-176V derating to 40% load linearly	176-300V 100% load, 100-176V derating to 40% load linearly	176-300V 100% load, 100-176V derating to 40% load linearly	176-300V 100% load, 100-176V derating to 40% 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 C20	IEC C20	IEC C20
Output performance	Rated voltage	220/230/240V	220/230/240V	220/230/240V	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	±1%	±1%	±1%	±1%
	THDv	<2% linear load <6% non linear load	<2% linear load <6% non linear load	<2% linear load <6% non linear load	<2% linear load <6% non linear load
	Transfer time	0ms(4ms @ line <-> bypass;10ms @ ECO <->In- verter)	0ms(4ms @ line <-> bypass;10ms @ ECO <->In- verter)	0ms(4ms @ line <-> bypass;10ms @ ECO <->In- verter)	0ms(4ms @ line <-> bypass;10ms @ ECO <->In- verter)
	Crest Ratio	max 3:1	max 3:1	max 3:1	max 3:1
Overload (line mode)	100%<load≤105% continu- ous. 105%< load ≤130% for 60 second 130<load≤150% for 10 seconds. >150% for 0.3s.	100%<load≤105% continu- ous. 105%< load ≤130% for 60 second 130<load≤150% for 10 seconds. >150% for 0.3s.	100%<load≤105% continu- ous. 105%< load ≤130% for 60 second 130<load≤150% for 10 seconds. >150% for 0.3s.	100%<load≤105% continu- ous. 105%< load ≤130% for 60 second 130<load≤150% for 10 seconds. >150% for 0.3s.	
Output connection	Wiring/socket	4*IEC C13 (optiona for Schuko and NEMA)	4*IEC C13 (optiona for Schuko and NEMA)	4 x IEC C13 + 1 x IEC C19 (op- tiona for Schuko and NEMA)	4 x IEC C13 + 1 x IEC C19 (op- tiona for Schuko and NEMA)
Battery	Voltage	48VDC	48VDC	72VDC	72VDC
	Capacity(AH)	4 x 12V/9Ah	NA	6 x 12V/9Ah	NA
	Backup time (PF=0.9; 100% load)	4min	NA	4min	NA
Maximum connect external battery module quantity	External battery module quantity	4(optional)	4	4(optional)	4
Charger	Maximum charging current	1.5A	6A	1.5A	6A
	Recharging time	4h to 90%	NA	4h 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

*Innova G2 tower 1K/1.5K/2K/3K has two version standard models. One is standard model can connect external battery module and another is standard model can not connect external battery module.

**EPO can be optional.

Product specification

Model name		INNOVA G2 2K DIN T / INNOVA G2 2K IEC T	INNOVA G2 2KL DIN T / INNOVA G2 2KL IEC T	INNOVA G2 3K DIN T / INNOVA G2 3K IEC T	INNOVA G2 3KL DIN T / INNOVA G2 3KL IEC T
HMI(human-machine interface)	Display	segment LCD	segment LCD	segment LCD	segment LCD
	USB	USB 2.0	USB 2.0	USB 2.0	USB 2.0
	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	190*399*327	102*390*327	190*393*327	102*390*327
	Net Weight(KG)	17.4	6.4	22.7	6.4
	IP protection level	IP20	IP20	IP20	IP20
Environment	Operating temperature	0-40°C	0-40°C	0-40°C	0-40°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	<40dB @ typical load with battery fully charged	<40dB @ typical load with battery fully charged	<41dB @ typical load with battery fully charged	<41dB @ 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	C2	C2	C2	C2
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

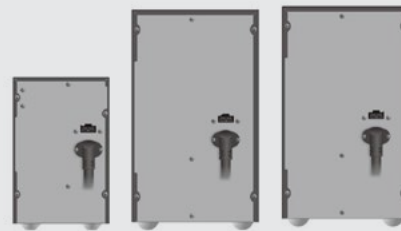
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**EPO can be optional.

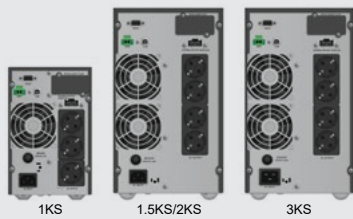
Product rear panel



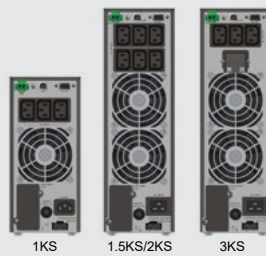
INNOVA G2 1-3K
IEC T rear with RS232



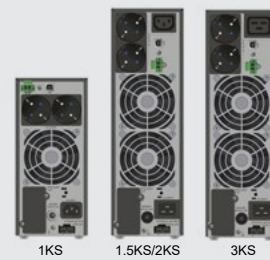
EBM



INNOVA G2 1-3K
DIN T rear (SCHUKO)



INNOVA G2 1-3KL
IEC T rear



INNOVA G2 1-3KL
DIN T rear (SCHOKU)

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