



Huawei UPS Product Family

(1-20KVA)

UPS2000-G R/T UPS

Reliable

Excellent adaptability, the most reliable power supply solution

Efficient

UP to 95% efficiency

Simple

R/T convertible, LCD screen display, supporting multiple languages

Huawei UPS2000-G 1-3kVA Series

- R/T convertible, 2U
- LCD display
- Intelligent management, easy monitoring anytime and anywhere

Huawei UPS2000-G 6-10kVA Series

- 80-280Vac ultra-wide input voltage range
- R/T convertible, 2U, LCD display
- 5kA lightning protection design, reducing lightning-related failure rate by 90%
- UP to 94.5% efficiency
- Pre-failure alarm for key components
- Flexible battery configuration: Support 20 to 16 cells per string

Huawei UPS2000-G 15-20kVA Series

- 80-280Vac ultra-wide input voltage range
- R/T convertible, 3U, LCD display
- 5kA lightning protection design, reducing lightning-related failure rate by 90%
- UP to 95% efficiency
- Pre-failure alarm for key components
- Flexible battery configuration: Support 40 to 32 cells per string

UPS2000-A Tower UPS

Reliable

Excellent adaptability, the most reliable power supply solution

Efficient

UP to 96% efficiency

Simple

Built-in battery, compact size, USB GSM modem install & operation more easy

Huawei UPS2000-A 1-3kVA Series

- 110-300Vac ultra-wide input voltage range for harsh grid
- UP to 90% efficiency
- Output PF: 0.8

Huawei UPS2000-A 6-10kVA Standard Series

- 80-280Vac ultra-wide input voltage range for harsh grid
- UP to 96% efficiency
- Output PF: 0.9
- Pre-failure alarm for fans, batteries etc, preventive maintenance

Product	Power Capacity (kVA)	Type	Picture	Main Input				Output					Battery	Interface	Physical Characteristics	
				Input/Output	Input Voltage (Vac)	Input Frequency (Hz)	Input PF	Output Voltage (Vac)	Voltage accuracy	Output Frequency (Hz)	Output PF	Overload Capacity	Battery Rated Voltage (Vdc)	Communicate Interface	Weight (Kg) S/L	Noise
UPS2000-A	1/2/3 kVA	High Frequency Tower UPS		1/1	110-300	40-70	0.99	200/208/220/230/240	± 1%	50/60Hz ± 5%	0.8	105%-110%: 10 min 110%-130%: 1 min 130%-150%: 3s	long-run: 1 kVA: 36 2 kVA: 72 3 kVA: 96	RS232/USB(optional Modbus/Dry Contact card/SNMP)	1kVA:9.4/4.6 2kVA:17.5/7.3 3kVA:27.0/8.0	<50
UPS2000-A	6/10 kVA	High Frequency Tower UPS		1/1	80-280	50/60 ± 5	0.99	208/220/230/240	± 1%	50/60Hz ± 0.05Hz	0.9	105%-125%: 5 min 125%-150%: 1 min	long-run: 192-240	USB(optional Modbus/ Dry Contact card/ SNMP)	6kVA(Std):20 10kVA(Std):21	<55
UPS2000-G	1/2/3 kVA	High Frequency Tower/Rack UPS		1/1	110-300	40-70	0.99	200/208/220/230/240	± 1%	50/60 ± 0.5%	0.8	130%: 1 min 150%: 3s	long-run: 1 kVA: 36 2 kVA: 72 3 kVA: 96	RS232/USB(optional Modbus/Dry Contact card/SNMP)	1kVA:10.7/5.9 2kVA:18.5/8.6 3kVA:27.9/9.2	<50
UPS2000-G	6/10/15/20 kVA	High Frequency Tower/Rack UPS		6 kVA: 1/1 10 kVA: 1/1, 3/1 15/20 kVA: 1/1, 3/1, 3/3	80-280	40-70	0.99	208/220/230/240	± 1%	50/60 ± 0.1%	0.9	125%: 5 min 150%: 1 min	192-240V (6/10K) 384-480V (15/20K)	USB(optional Modbus/ Dry Contact card/ SNMP)	6kVA:14 10kVA:16 15kVA:32 20kVA:32	<55/55/58/58

Cabling Specification

Model	6 kVA	10 kVA	15 kVA					20 kVA					
Input/Output	1/1	1/1, 3/1	1/1	3/1			3/3	1/1	3/1				3/3
Wiring	Input/Output	Input/Output	I (Mains and bypass shared input) /O	Bypass Input	Main input	Output	Bypass Input/Main Input/Output	I (Mains and bypass shared input) /O	Bypass Input	Main input	Output	Battery Cable	Bypass Input/Main Input/Output
External Circuit Breaker	50A, 1P	63A, 1P	100A, 1P	100A, 1P	50A, 3P	100A, 1P	50A, 3P	125A, 1P	125A, 1P	63A, 3P	125A, 1P	63A	63A, 3P
Cable Size	6mm²	10mm²	25mm²	25mm²	10mm²	25mm²	10mm²	25mm²	25mm²	10mm²	25mm²	16mm²	10mm²

Backup Time For Standard UPS

UPS Model	Battery Capacity	Number of Batteries	Backup Time(min) 100%/75%/50%/25% Load	Battery Configuration
UPS2000-A-1KTTS	9AH/12V	2	4/6.5/12.5/24.5 min	Internal
UPS2000-A-2KTTS	9AH/12V	4	4/6.5/11.5/26 min	Internal
UPS2000-A-3KTTS	9AH/12V	6	4/7.5/13/31.5 min	Internal
UPS2000-G-1KRTS	9AH/12V	2	4/6.5/12.5/24.5 min	Internal
UPS2000-G-2KRTS	9AH/12V	4	4/6.5/11.5/26 min	Internal
UPS2000-G-3KRTS	9AH/12V	6	4/7.5/13/31.5 min	Internal

Battery Configuration and Backup time for UPS

UPS model	Number (product No.)	Battery Capacity	Battery cell number	Backup time (min)/According to the load*				config- uration
				25%	50%	75%	100%	
UPS2000-A-1KTTL	1*24021971	9AH/12V	3 cell * 2 group	77	39	21	15	External
	2*24021971	9AH/12V	3 cell * 4 group	159	83	47	36	
UPS2000-A-2KTTL	1*24021973	9AH/12V	6 cell*2 group	85	45	25	17	External
	2*24021973	9AH/12V	6 cell*4 group	175	95	55	39	
UPS2000-A-3KTTL	1*24021972	9AH/12V	8 cell*2 group	85	45	25	17	External
	2*24021972	9AH/12V	8 cell*4 group	175	95	55	39	
UPS2000-A-6KTTL-S	1*02311CPE	9AH/12V	20 cell*2 group	77	46	25	19	External
	2*02311CPE	9AH/12V	20 cell*4 group	174	92	57	46	
UPS2000-A-10KTTL-S	1*02311CPE	9AH/12V	20 cell*2 group	57	32	17	12	External
	2*02311CPE	9AH/12V	20 cell*4 group	125	70	44	32	
UPS2000-G-1KRTL	1*24021880	9AH/12V	3 cell*2 group	77	39	21	15	External
	2*24021880	9AH/12V	3 cell*4 group	159	83	47	36	
UPS2000-G-2KRTL	1*24021962	9AH/12V	6 cell*1 group	37	18	10	6.5	External
	2*24021962	9AH/12V	6 cell*2 group	85	45	25	17	
	3*24021962	9AH/12V	6 cell*3 group	175	95	55	39	
	4*24021962	9AH/12V	6 cell*4 group	267	147	87	63	
UPS2000-G-3KRTL	1*24021736	9AH/12V	8 cell*1 group	45	17	11	7	External
	2*24021736	9AH/12V	8 cell*2 group	85	45	25	16	
	3*24021736	9AH/12V	8 cell*3 group	167	74	45	31	
	4*24021736	9AH/12V	8 cell*4 group	175	95	55	39	
UPS2000-G-6KRTL	2*02310PFD	7AH/12V	40	77	46	25	19	External
	3*02310PFD	7AH/12V	60	120	68	43	29	
	4*02310PFD	7AH/12V	80	174	92	57	46	
UPS2000-G-10KRTL	2*02310MWN	9AH/12V	40	57	32	17	12	External
	3*02310MWN	9AH/12V	60	88	53	29	23	
	4*02310MWN	9AH/12V	80	125	70	44	32	
UPS2000-G-15KRTL	2*02310MWN	9AH/12V	40	35	18	9	7	External
	4*02310MWN	9AH/12V	80	79	48	26	19	
	6*02310MWN	9AH/12V	120	125	70	44	32	
	8*02310MWN	9AH/12V	160	171	96	57	48	
UPS2000-G-20KRTL	2*02310MWN	9AH/12V	40	26	12	7	4	External
	4*02310MWN	9AH/12V	80	56	32	17	12	
	6*02310MWN	9AH/12V	120	88	53	29	23	
	8*02310MWN	9AH/12V	160	125	70	44	32	

Remarks:

- The load rate of UPS 6-20kVA is 30%, 50%, 80% and 100%.

UPS Optional Components (UPS2000-A 1-10 kVA)

UPS Model Options	UPS2000-A-1KTTS	UPS2000-A-1KTTL	UPS2000-A-2KTTS	UPS2000-A-2KTTL	UPS2000-A-3KTTS	UPS2000-A-3KTTL	UPS2000-A-6KTTL-S UPS2000-A-10KTTL-S
SNMP Card	√	√	√	√	√	√	√
Modbus Card	√	√	√	√	√	√	√
Dry Contact Card	√	√	√	√	√	√	√
Temperature and humidity sensor	√	√	√	√	√	√	√
Isolation transformer	—	—	—	—	—	—	—
GSM modem	—	—	—	—	—	—	√
External charger	—	√	—	√	—	√	—
OVCD board	√	√	√	√	√	√	—
Battery Pack	—	√	—	√	—	√	√
Parallel cable	—	—	—	—	—	—	—
Battery Cabinet	—	√	—	√	—	√	√
Battery Rack	—	√	—	√	—	√	√
Battery Breaker Box	—	√	—	√	—	√	√

Remarks:

- Select one out of the SNMP card, Modbus card, and dry contact card.
- The ambient temperature and humidity sensor should be used together with the SNMP card for monitoring the ambient temperature and humidity of the UPS.
- An external charger can enhance the charger capacity of a UPS with long backup time. The charger current is adjustable. For 1 kVA, 2 kVA, and 3 kVA UPSs, the maximum charge current are 15 A, 12 A, and 10 A respectively.

UPS Optional Components (UPS2000-G 1-20 kVA)

UPS Model Options	UPS2000-G-1KRTS	UPS2000-G-1KRTL	UPS2000-G-2KRTS	UPS2000-G-2KRTL	UPS2000-G-3KRTS	UPS2000-G-3KRTL	UPS2000-G-6KRTL	UPS2000-G-10KRTL	UPS2000-G-15KRTL	UPS2000-G-20KRTL
Battery Pack	—	√	—	√	—	√	√	√	√	√
Parallel cable	—	—	—	—	—	—	√	√	√	√
PDU	—	—	—	—	—	—	√	√	√	√
Isolation transformer	—	—	—	—	—	—	√	√	√	√
Temperature and humidity sensor	√	√	√	√	√	√	√	√	√	√
Battery Temperature sensor	—	—	—	—	—	—	√	√	√	√
Dry Contact Card	√	√	√	√	√	√	√	√	√	√
SNMP Card	√	√	√	√	√	√	√	√	√	√
Modbus Card	√	√	√	√	√	√	√	√	√	√
Rail component	√	√	√	√	√	√	√	√	√	√

Remarks:

- Select one out of the SNMP card, Modbus card, and dry contact card.
- The ambient temperature and humidity sensor should be used together with the SNMP card for monitoring the ambient temperature and humidity of the UPS.

Longer backup time frame, according to the actual load requirements, reference to Huawei's Data Center Handbook 8.2 calculation method or by SCT configuration