

Power

for your cable networks and communication systems...

Solutions

SMK Series Uninterruptible Power Supply



- Line interactive design
- Boost and buck AVR (Auto voltage regulation)
- Fully digitized microprocessor controlled
- Smart LCD display
- Energy saving function (UPS sleep mode)
- 50/60Hz frequency auto sensing and selection
- On-battery startup (DC power on)
- Lightning and surge protection
- Short circuit and overload protection
- Advanced battery management (ABM technology)
- Smart RS-232 communication interface
- Tel/Modem internet surge suppression
- Site wiring fault warning (only available on certain models)
- Optional SNMP Adapter

SMK Series Uninterruptible Power Supply

Nominal Specifications (Tower, Built-in Batteries)

Model		SMK-1KA	SMK-2KA	SMK-3KA	SMK-5KA
Rated Power		1000VA / 600W	2000VA / 1200W	3000VA / 1800W	5000VA / 3000W
Input	Voltage	100, 110, 115, 120, 220, 230 or 240VAC, single phase			
	Voltage range	±25%			
	Frequency	50Hz or 60Hz ±5Hz, auto-sensing			
Output	Voltage	Typical as same as input, ±5% at battery mode			
	Voltage regulation (AVR)	+15% at 75% to 91% nominal input; -13% at 109% to 125% nominal input			
	Frequency	50Hz or 60Hz, auto-detecting; ±0.5% at battery mode			
	Waveform	Pure sine wave			
	Power factor	0.60			
Transfer time		2 to 4ms			
Protections	Spike	320 joule for 2ms			660 joules
	EMI/RFI filter	10dB at 0.15MHz, 50db at 30MHz			
	Overload	≥110%, shut down in 20s; ≥125%, shut down in 5s.			
	Short-circuit	cut off output immediately or open input breaker (or fuse)			
Battery	Type	Built-in sealed maintenance free (SMF) VRLA battery			
	Voltage	24VDC	48VDC	48VDC	72VDC
	Charging time	4 hours typical to 90% of battery capacity			
	Protection	Self-test, discharging protection and battery fault alarm			
	Backup time	7 minutes at full load and 15 minutes at half load			
Communication interface		RS-232			
Safety Agency		CE (EN50091-2, EN61000-3, EN61000-3-3)			
Alarm	Standby mode	beeps every 4 seconds			
	Battery low	beeps a second			
	Overload	beeps continuously			
Environmental	Operating temperature	0 to 40°C / 32 to 104°F			
	Relative humidity	0 to 95% non-condensing			
	Elevation	3500m max. (15000m max. for storage)			
	Noise	<45dB at 1m			
Mechanical	LCD display	Line/ battery / inverter status, operation mode, input voltage & frequency, output voltage & frequency, battery voltage, load capacity, fault			
	Dimensions (WDH)	140x436x210mm 5.5"x17.2"x8.3"	170x450x226mm 6.7"x17.7"x8.9"	170x450x226mm 6.7"x17.7"x8.9"	214x710x428mm 8.4"x27.9"x16.8"
	Weight	25kgs / 55lbs	30kgs / 66lbs	30kgs / 66lbs	81.8kgs/179.9 lbs

SMK Series Uninterruptible Power Supply

Nominal Specifications (Tower, External Batteries)

Model		SMK-1KAL	SMK-2KAL	SMK-3KAL	SMK-5KAL
Rated Power		1000VA / 600W	2000VA / 1200W	3000VA / 1800W	5000VA / 3000W
Input	Voltage	100, 110, 115, 120, 220, 230 or 240VAC, single phase			
	Voltage range	±25%			
	Frequency	50Hz or 60Hz ±5Hz, auto-sensing			
Output	Voltage	Typical as same as input, ±5% at battery mode			
	Voltage regulation (AVR)	+15% at 75% to 91% nominal input; -13% at 109% to 125% nominal input			
	Frequency	50Hz or 60Hz, auto-detecting; ±0.5% at battery mode			
	Waveform	Pure sine wave			
	Power factor	0.60			
Transfer time		2 to 4ms			
Protections	Spike	320 joule for 2ms			660 joules
	EMI/RFI filter	10dB at 0.15MHz, 50db at 30MHz			
	Overload	≥110%, shut down in 20s; ≥125%, shut down in 5s.			
	Short-circuit	cut off output immediately or open input breaker (or fuse)			
Battery	Type	External sealed maintenance free (SMF) VRLA battery			
	Voltage	24VDC	48VDC	48VDC	72VDC
	Charging time	8 hours typical to 90% of battery capacity			
	Protection	Self-test, discharging protection and battery fault alarm			
	Backup time	Depends on capacity of external batteries			
Communication interface		RS-232			
Safety Agency		CE (EN50091-2, EN61000-3, EN61000-3-3)			
Alarm	Standby mode	beeps every 4 seconds			
	Battery low	beeps a second			
	Overload	beeps continuously			
Environmental	Operating temperature	0 to 40°C / 32 to 104°F			
	Relative humidity	0 to 95% non-condensing			
	Elevation	3500m max. (15000m max. for storage)			
	Noise	<45dB at 1m			
Mechanical	LCD display	Line/ battery / inverter status, operation mode, input voltage & frequency, output voltage & frequency, battery voltage, load capacity, fault, temperature			
	Dimensions (WDH)	170x450x226mm 6.7"x17.7"x8.9"	170x450x226mm 6.7"x17.7"x8.9"	170x450x226mm 6.7"x17.7"x8.9"	214x710x428mm 8.4"x27.9"x16.8"
	Weight	15kgs / 33.1lbs	30kgs / 66lbs	30kgs / 66lbs	81.8kgs/179.9 lbs

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