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Uninterruptible Power Supply



Scoreman Industrial Technology (Suzhou) Co., Ltd.

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Online Uninterruptible Power Supply System

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SC Tower
1KVA-10KVA

SCOREMAN

- True double-conversion
- Microprocessor control optimizes reliability
- Input power factor correction 0.99
- output power factor 1.0
- 50/60Hz Frequency Converter Mode
- Wide input voltage (110V-300V)
- ECO mode for energy saving
- Smart battery charger design to optimize battery performance
- Comprehensive display allows easy monitoring and access of UPS status
- SNMP/USB/RS-232 multiple communications
- Generator compatible

MODEL		SC Tower 1K (L)			SC Tower 2K (L)			SC Tower 3K (L)			SC Tower 6K (L)			SC Tower 10K (L)					
PHASE		Single-phase with ground																	
CAPACITY		1000 VA / 900 W			2000 VA / 1800 W			3000 VA / 2700 W			6000VA / 5400W			10000 VA / 9000 W					
INPUT																			
Nominal Voltage		100/110/115/120/127VAC or 200/208/220/230/240VAC									208/220/230/240VAC								
Input Voltage Range		55-150 VAC or 110-300 VAC at 50% load 85-140 VAC or 160-280 VAC at 100% load									110-300 VAC at 50% load 176-300 VAC at 100% load								
Frequency Range		40 Hz ~ 70 Hz									46~54 Hz or 56~64 Hz								
Power Factor		≥ 0.99 @ nominal voltage (100%load)																	
OUTPUT																			
Output Voltage		100/110/115/120/127VAC or 200/208/220/230/240VAC									208/220/230/240VAC								
AC Voltage Regulation (Batt. Mode)		± 1 %																	
Frequency Range (Synchronized Range)		47 ~ 53 HHz or 57 ~ 63 Hz									46~54 HHz or 56~64 Hz								
Frequency Range (Batt. Mode)		50 Hz ± 0.25 HHz or 60Hz ± 0.3 Hz									50 HHz or 60Hz ± 0.1 Hz								
Current Crest Ratio		3:1																	
Harmonic Distortion		≤ 3% THD (Linear Load) ≤ 6% THD (Non-linear Load)									≤ 3% THD (Linear Load) ≤ 5% THD (Non-linear Load)								
Transfer	AC to DC	Zero																	
Time	Inverter to Bypass	4ms (Typical)									Zero								
Waveform (Batt. Mode)		Pure Sinewave																	
EFFICIENCY																			
AC Mode		88%			88%			90%			92%			93%					
Battery Mode		83%			87%			88%			90%			91%					
BATTERY																			
Standard Model	Battery Type	12 V / 9 Ah			12 V / 9 Ah			12 V / 9 Ah			12 V / 9 Ah								
	Numbers	2			4			6			16		20		16		20		
	Typical Recharge Time	4 hours recover to 90% capacity													9 hours recover to 90% capacity				
	Charging Current (max.)	1 A													1 A / 2 A				
Long-run Model	Charging Voltage	27.4VDC ± 1%			54.7 VDC ±1%			82.1 VDC ±1%			218.4 VDC ±1%		273 VDC ±1%		218.4 VDC ±1%		273 VDC ±1%		
	Battery Type	Sealed Lead-Acid Battery																	
	Numbers	2		3		4		6		8		6		8		16 ~ 20			
	Charging Current (max.)	1A/2A/4A/6A													1A/2A/4A/6A				
Charging Voltage		27.4VDC ±1%			41.0VDC ±1%		54.7 VDC ±1%		82.1 VDC ±1%		109.4VDC ±1%		82.1 VDC ±1%		109.4VDC ±1%		273 VDC ± 1%		
INDICATORS																			
LCD Display		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions																	
ALARM SOUND																			
Battery Mode		Beeps once every 4 seconds																	
Low Battery Power		Beeps Once Every Second																	
Overload		Beeps Once Every Second																	
Fault		Continuous Beeping																	
PHYSICAL																			
Standard Model	Dimension, D*W*H(mm)	282 x 145 x 220			397 x 145 x 220			421 x 190 x 318			369 x 190 x 688			442 x 190 x 688					
	Net Weight (kg)	9.8			17			27.6			61			74					
Long-run Model	Dimension, D*W*H(mm)	282 x 145 x 220			397 x 145 x 220						369 x 190 x 318			442 x 190 x 318					
	Net Weight (kg)	4.1			6.8			7.4			12			16					
ENVIRONMENT																			
Operating Humidity		20-90 % RH @ 0- 40°C(Non-condensing)									< 95% RH @ 0-50°C (Non-condensing)			< 95% RH @ 0-40°C (Non-condensing)					
Noise Level		Less than 55dB @ 1 Meter									Less than 55dB @ 1 Meter			Less than 55dB @ 1 Meter					
MANAGEMENT																			
Smart RS-232/USB		Supports Windows Family, Linux and MAC																	
Optional SNMP		Power management from SNMP manager and web browser																	

*Derate capacity to 60% of capacity in CVCF mode and to 90% when the output voltage is adjusted to 208VAC or parallel system is operated.
 **When using 16 pieces of batteries, the output power factor will be derated to 0.8. If using 18 or 19 pieces of batteries, the output power factor will be derated to 0.9.
 ***If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated one percent per 100m.
 Product specifications are subject to change without further notice.

SC Tower 3-phase in / 1-phase out
10KVA/15KVA/20KVA

SCOREMAN

- True double-conversion
- Wide input voltage (190V-520V)
- The output can be set to constant voltage and constant frequency mode (50/60 Hz)
- Emergency Power Off (EPO)
- Compatible with Generator Input
- Maintenance Bypass Switch (Optional)
- SNMP/USB/RS-232 multiple communications



MODEL		Winner Pro 3/1 10K (L)		Winner Pro 3/1 15K (L)		Winner Pro 3/1 20K (L)	
PHASE		3-phase in / 1-phase out					
CAPACITY		10000 VA / 9000 W		15000 VA / 13500 W		20000 VA / 18000 W	
INPUT							
Nominal Voltage		3 x 400 VAC (3-phase + Neutral)					
Input Voltage Range		190-520 VAC (3-phase) at 50% load 305-520 VAC (3-phase) at 100% load					
Frequency Range		46~54 Hz					
OUTPUT							
Output Voltage		208/220/230/240VAC					
AC Voltage Regulation (Batt. Mode)		± 1%					
Frequency Range (Synchronized Range)		46~54Hz					
Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz					
Current Crest Ratio		3:1(max)					
Harmonic Distortion		≤ 3% THD (Linear Load) , ≤ 5% THD (Non-linear Load)					
Transfer	AC to DC	Zero					
Time	Inverter to Bypass	Zero					
Waveform (Batt. Mode)		Pure Sinewave					
EFFICIENCY							
AC Mode		91%		91%		91%	
Battery Mode		91%		91%		≥ 91%	
BATTERY							
Standard Model	Battery Type	12 V / 9 AH					
	Numbers	16	20	16	20	20	
	Typical Recharge Time	9 hours recover to 90% capacity					
	Charging Current (max.)	1A/2A/4A					
Long-run Model	Charging Voltage	218.4 VDC ± 1%	273 VDC ± 1%	218.4 VDC ± 1%	273 VDC ± 1%	273 VDC ± 1%	
	Battery Type	Sealed Lead-Acid Battery					
	Numbers	16	20	16	20	16	20
	Charging Current (max.)	1A/2A/4A					
	Charging Voltage	218.4 VDC ± 1%	273 VDC ± 1%	218.4 VDC ± 1%	273 VDC ± 1%	218.4 VDC ± 1%	273 VDC ± 1%
INDICATORS							
LCD Display		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions					
ALARM SOUND							
Battery Mode		Beeps once every 4 seconds					
Low Battery Power		Beeps Once Every Second					
Overload		Beeps once every 0.5 seconds					
Fault		Continuous Beeping					
PHYSICAL							
Standard Model	Dimension, D*W*H(mm)	442 x 190 x 688				575 x 190 x 688	
Long-run Model	Net Weight (kg)	66	76	68	78	80.1	
	Dimension, D*W*H(mm)	442 x 190 x 318				575 x 190 x 318	
	Net Weight (kg)	15		16		18.95	
ENVIRONMENT							
Operating Humidity		< 95% RH @ 0-50 °C (Non-condensing)					
Noise Level		Less than 60dB @ 1 Meter					
MANAGEMENT							
Smart RS-232/USB		Supports Windows Family, Linux and MAC					
Optional SNMP		Power management from SNMP manager and web browser					

SC Rack 1KVA-10KVA



SCOREMAN

- True double-conversion
- Microprocessor control optimizes reliability
- Input power factor correction 0.99
- output power factor 1.0
- 50/60Hz Frequency Converter Mode
- Wide input voltage (110V-300V)
- ECO mode for energy saving
- Smart battery charger design to optimize battery performance
- Comprehensive display allows easy monitoring and access of UPS status
- SNMP/USB/RS-232 multiple communications
- Generator compatible

MODEL	SC Rack 1KR	SC Rack 2KR	SC Rack 3KR	SC Rack 6KR	SC Rack 10KR	
PHASE	Single-phase with ground					
CAPACITY *	1000 VA / 900 W	2000 VA / 1800 W	3000 VA / 2700 W	6000VA / 5400W	10000 VA / 9000 W	
INPUT						
Nominal Voltage	100/110/115/120/127VAC or 200/208/220/230/240VAC			208/220/230/240VAC		
Input Voltage Range	55-150 VAC or 110-300 VAC at 50% load 85-140 VAC or 160-280 VAC at 100% load			110-300 VAC at 50% load 176-300 VAC at 100% load		
Frequency Range	40 Hz ~ 70 Hz			46~54 Hz or 56~64 Hz		
Power Factor	≥ 0.99 @ nominal voltage (100%load)					
OUTPUT						
Output Voltage	100/110/115/120/127VAC or 200/208/220/230/240VAC			208/220/230/240VAC		
AC Voltage Regulation (Batt. Mode)	± 1 %					
Frequency Range (Synchronized Range)	47 ~ 53 Hz or 57 ~ 63 Hz			46~54 Hz or 56~64 Hz		
Frequency Range (Batt. Mode)	50 Hz ± 0.25 Hz or 60Hz ± 0.3 Hz			50 Hz or 60Hz ± 0.1 Hz		
Current Crest Ratio	3:1					
Harmonic Distortion	≤ 3% THD (Linear Load) ≤ 6% THD (Non-linear Load)			≤ 3% THD (Linear Load) ≤ 5% THD (Non-linear Load)		
Transfer	Zero					
Time	Inverter to Bypass 4ms (Typical)			Zero		
Waveform (Batt. Mode)	Pure Sinewave					
EFFICIENCY						
AC Mode	88%	88%	90%	92%	93%	
Battery Mode	83%	87%	88%	90%	91%	
BATTERY						
Standard Model	Battery Type	12 V / 9 Ah		12 V / 9 Ah		
	Numbers	2		4		
	Typical Recharge Time	4 hours recover to 90% capacity			9 hours recover to 90% capacity	
	Charging Current (max.)	1 A			1 A / 2 A	
Long-run Model	Charging Voltage	27.4VDC ± 1%		54.7 VDC ± 1%		
	Battery Type	Sealed Lead-Acid Battery				
	Numbers	2		3		
	Charging Current (max.)	1A/2A/4A/6A			1A/2A/4A/5A	
Charging Voltage	27.4VDC ± 1% 41.0VDC ± 1% 54.7 VDC ± 1% 82.1 VDC ± 1% 109.4VDC ± 1%			273 VDC ± 1%		
INDICATORS						
LCD Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions					
ALARM SOUND						
Battery Mode	Beeps once every 4 seconds					
Low Battery Power	Beeps Once Every Second					
Overload	Beeps Once Every Second					
Fault	Continuous Beeping					
PHYSICAL						
Standard Model	Dimension, D*W*H(mm)	310 x 438 x 88 [2U]	410 x 438 x 88 [2U]	630 x 438 x 88 [2U]	530x438x88 [2U](Host only)	
Net Weight (kg)	12	19	29.3	15+48	15+61	
Long-run Model	Dimension, D*W*H(mm)	310 x 438 x 88 [2U]	410 x 438 x 88 [2U]	530x438x88 [2U]	580 x 438 x 133 [3U]	
Net Weight (kg)	9	12	14.2	15	18	
ENVIRONMENT						
Operating Humidity	20-90 % RH @ 0- 40°C (Non-condensing)			< 95% RH @ 0-50°C (Non-condensing)		
Noise Level	Less than 55dB @ 1 Meter			Less than 55dB @ 1 Meter		
MANAGEMENT						
Smart RS-232/USB	Supports Windows Family, Linux and MAC					
Optional SNMP	Power management from SNMP manager and web browser					

*Derate capacity to 60% of capacity in CVD mode and to 90% when the output voltage is adjusted to 208VAC or parallel system is operated.
 **When using 16 pieces of batteries, the output power factor will be derated to 0.8. If using 18 or 19 pieces of batteries, the output power factor will be derated to 0.9
 ***If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated one percent per 100m.
 Product specifications are subject to change without further notice.

SC Rack 6KVA/10KVA



SCOREMAN

- True double-conversion
- DSP technology ensures high efficiency
- Output power factor can reach 1
- Wide input voltage(110-300VAC)
- Efficiency improvement up to 94%
- Input power factor can reach 0.99
- 50Hz/60Hz frequency conversion mode
- ECO mode for effective energy saving
- Compatible with generator input
- OVCD protection device (optional)

MODEL		Galleon II 6K(L)		Galleon II 10K(L)	
PHASE		1-phase in / 1-phase out			
CAPACITY		6000 VA / 6000 W		10000 VA / 10000 W	
INPUT					
Nominal Voltage		208/220/230/240 VAC			
Input Voltage Range		110~300VAC @ 0~60% load 140~300VAC @ 60~80% load 176~300VAC @ 80~100% load			
Frequency Range		46~54 Hz @ 50Hz / 56~64 Hz @ 60Hz			
Power factor		≥ 0.99 @ 100% load			
THDI		< 4% @100% load , < 6% @50% load			
OUTPUT					
Output Voltage		208/220/230/240 VAC			
AC Voltage Regulation (Batt. Mode)		± 1%			
Frequency Range (Synchronized Range)		46~54 Hz @ 50Hz / 56~64 Hz @ 60Hz			
Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz			
Current Crest Ratio		3:1 (Imax)			
Harmonic Distortion		≤ 1 % THD (Linear load) , ≤ 4 % THD (nonlinear load)			
Transfer	AC to DC	Zero			
Time	Inverter to Bypass	Zero			
Waveform (Batt. Mode)		Pure Sinewave			
Overload	AC Mode	100%~110%: 10 min ; 110%~130%: 1 min ; >130%: 1 s			
	Battery Mode	100%~110%: 30 s ; 110%~130%: 10 s ; >130%: 1 s			
EFFICIENCY					
Line Mode		94%			
Battery Mode		92%			
BATTERY					
Standard Model	Battery Type	12 V / 7 AH		12 V / 9 AH	
	Numbers	16	20	16	20
	Typical Recharge Time	9 hours recover to 90% capacity			
	Charging Current (max.)	1.0 A			
	Charging Voltage	218.4 VDC ± 1%	273 VDC ± 1%	218.4 VDC ± 1%	273 VDC ± 1%
Long-run Model	Battery Type	Sealed Lead-Acid Battery			
	Numbers	16-20**			
	Charging Current (max.)	4.0 A			
	Charging Voltage	273 VDC			
INDICATORS					
LCD Display		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions			
ALARM SOUND					
Battery Mode		Beeps once every 4 seconds			
Low Battery Power		Beeps Once Every Second			
Overload		Beeps once every 0.5 seconds			
Fault		Continuous Beeping			
PHYSICAL					
Standard	Dimension, D*W*H(mm)	UPS unit : 610x438x88 [2U] Battery Pack: 715x438x88 [2U]	UPS unit : 610x438x88 [2U] Battery Pack: 606x438x133 [3U]	UPS unit : 610x438x88 [2U] Battery Pack: 715x438x88 [2U]	UPS unit : 610x438x88 [2U] Battery Pack: 606x438x133 [3U]
Model	Net Weight (kg)	UPS unit : 15 Battery Pack : 48	UPS unit : 15 Battery Pack: 63	UPS unit : 18 Battery Pack: 48	UPS unit : 18 Battery Pack : 63
Long-run Model	Dimension, D*W*H(mm)	600 x 438 x 88 [2U]			
	Net Weight (kg)	17		20	
ENVIRONMENT					
Operating Humidity		< 95% RH @0-50 °C (Non-condensing)			
Noise Level		Less than 55dB @ 1 Meter		Less than 58dB @ 1 Meter	
MANAGEMENT					
Smart RS-232/USB		Supports Windows Family, Linux and MAC			
Optional SNMP		Power management from SNMP manager and web browser			

SC31 3-phase in / 1-phase out 10KVA/15KVA/20KVA/30KVA

SCOREMAN


- True double-conversion
- DSP technology ensures high efficiency
- Output power factor can reach 0.9
- 50Hz/60Hz frequency conversion mode
- ECO mode for effective energy saving
- Emergency Power Off (EPO)
- Compatible with generator input
- Three-Stage Scalable Charging Design to Optimize Battery Performance
- The number of battery cells is adjustable
- An integrated maintenance bypass switch facilitates maintenance
- An optional isolation transformer ensures stable system power output and eliminates various types of noise
- N+X parallel redundancy application (max. 3)

MODEL	SC31 3/1-10K (L)	SC31 3/1-15K (L)	SC31 3/1-20K (L)	SC31 3/1-30K (L)
PHASE	3-phase in / 1-phase out			
CAPACITY *	10000 VA / 9000 W	15000 VA / 13500 W	20000 VA / 18000 W	30000 VA / 27000 W
INPUT				
Nominal Voltage	3 x 400 VAC (3-phase + Neutral)			
Input Voltage Range	190-520 VAC (3-phase) @50% load 305-478 VAC (3-phase) @100% load			
Frequency Range	46~54 Hz or 56~64Hz			
Power Factor	≥ 0.99 @ 100% load			
THDI	< 6% @ 100% load			
OUTPUT				
Output Voltage	208/220/230/240VAC			
AC Voltage Regulation (Batt. Mode)	± 1%			
Frequency Range (Synchronized Range)	46~54Hz or 56~64Hz			
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz			
Current Crest Ratio	3:1 (max)			
Harmonic Distortion	≤ 2 % THD (Linear Load) ; ≤ 5 % THD (Non-linear Load)			
Transfer	AC to DC	Zero		
Time	Inverter to Bypass	Zero		
Waveform (Batt. Mode)	Pure Sinewave			
EFFICIENCY				
AC Mode	91.5%	91.8%	91.8%	92.1%
ECO Mode	97.0%	97.0%	97.0%	97.0%
Battery Mode	87%	88.0%	88.0%	89.0%
BATTERY				
Standard Model	Battery Type	12 V / 9 Ah		
	Numbers	20(18-20 adjustable)	20(18-20 adjustable)×2	20(18-20 adjustable)×3
	Typical Recharge Time	9 hours recover to 90% capacity		
	Charging Current (max.)	1 A	2 A	4 A
Long-run Model	Charging Voltage	273 VDC±1% (20 Cells)		
	Battery Type	Sealed Lead-Acid Battery		
	Numbers	4A		
	Charging Current (max.)	4A	8A	12A
Long-run Model	Charging Voltage	273 VDC ± 1% (20 Cells)		
	Charging Voltage			
INDICATORS				
LCD Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions			
ALARM SOUND				
Battery Mode	Beeps once every 4 seconds			
Low Battery Power	Beeps Once Every Second			
Overload	Beeps once every 0.5 seconds			
Fault	Continuous Beeping			
PHYSICAL				
Standard Model	Dimension, D*W*H(mm)	592 x 250 x 576	815 x 250 x 826	815 x 300 x 1000
Model	Net Weight (kg)	83	164	234
Long-run Model	Dimension, D*W*H(mm)	592 x 250 x 576	592 x 250 x 576	815 x 250 x 826
Model	Net Weight (kg)	28	40	64
ENVIRONMENT				
Operating Humidity	< 95% RH @0-50 °C (Non-condensing)			
Noise Level	Less than 58dB @ 1 Meter	Less than 60dB @ 1 Meter		Less than 65dB @ 1 Meter
MANAGEMENT				
Smart RS-232/USB	Supports Windows Family, Linux and MAC			
Optional SNMP	Power management from SNMP manager and web browser			

SC31 Rack 3-phase in / 1-phase out SCOREMAN 10KVA/15KVA/20KVA



- True double-conversion
- DSP technology ensures high efficiency
- Output power factor can reach 0.9
- Wide input voltage (110V-300V)
- 50Hz/60Hz frequency conversion mode
- ECO mode for effective energy saving
- Emergency Power Off (EPO)
- Compatible with generator input
- The number of battery cells is adjustable

MODEL		SC31 Rack 3/1-10KR (L)	SC31 Rack 3/1-15KR (L)	SC31 Rack 3/1-20KR (L)
PHASE		3-phase in / 1-phase out		
CAPACITY *		10000 VA / 9000 W	15000 VA / 13500 W	20000 VA / 18000 W
INPUT				
Nominal Voltage		3 x 400 VAC (3-phase + Neutral)		
Input Voltage Range		190-520 VAC (3-phase) @50% load 305-478 VAC (3-phase) @100% load		
Frequency Range		46~54 Hz or 56~64Hz		
Power Factor		≥ 0.99 @ 100% load		
THDI		< 6% @ 100% load		
OUTPUT				
Output Voltage		208/220/230/240VAC		
AC Voltage Regulation (Batt. Mode)		± 1%		
Frequency Range (Synchronized Range)		46~54Hz or 56~64Hz		
Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz		
Current Crest Ratio		3:1 (max)		
Harmonic Distortion		≤ 2 % THD (Linear Load) ; ≤ 5 % THD (Non-linear Load)		
Transfer	AC to DC	Zero		
Time	Inverter to Bypass	Zero		
Waveform (Batt. Mode)		Pure Sinewave		
EFFICIENCY				
AC Mode		90.5%	91.0%	
ECO Mode		96.0%	96.0%	
Battery Mode		87%	88.0%	
BATTERY				
Standard Model	Battery Type	12 V / 9 Ah		
	Numbers	20(18-20 adjustable)	20(18-20 adjustable)×2	
	Typical Recharge Time	9 hours recover to 90% capacity		
	Charging Current (max.)	1 A	2 A	2 A
Long-run Model	Charging Voltage	273 VDC±1% (20 Cells)		
	Battery Type	Sealed Lead-Acid Battery		
	Numbers	4A		
	Charging Current (max.)	4A		
	Charging Voltage	273 VDC ± 1%(20 Cells)		
INDICATORS				
LCD Display		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions		
ALARM SOUND				
Battery Mode		Beeps once every 4 seconds		
Low Battery Power		Beeps Once Every Second		
Overload		Beeps once every 0.5 seconds		
Fault		Continuous Beeping		
PHYSICAL				
Standard Model	Dimension, D*W*H(mm)	UPS Unit : 668 x 438 x 133 [3U] Battery Pack : 580 x 438 x 133 [3U]	UPS Unit : 668 x 438 x 266 [6U] Battery Pack: 580 x 438 x 133 [3U] x 2PCS	
	Net Weight (kg)	UPS Unit: 22 Battery Pack: 63	UPS Unit: 45 Battery Pack: 63+2pcs	
Long-run Model	Dimension, D*W*H(mm)	668 x 438 x 133 [3U]	668 x 438 x 266 [6U]	
	Net Weight (kg)	22	45	
ENVIRONMENT				
Operating Humidity		< 95% RH @0-50 °C (Non-condensing)		
Noise Level		Less than 58dB @ 1 Meter	Less than 65dB @ 1 Meter	
MANAGEMENT				
Smart RS-232/USB		Supports Windows Family, Linux and MAC		
Optional SNMP		Power management from SNMP manager and web browser		

SCP Tower 3-phase in / 3-phase out

10KVA/15KVA/20KVA/30KVA

SCOREMAN


- True double-conversion
- DSP technology ensures high efficiency
- Output power factor can reach 0.9
- 50Hz/60Hz frequency conversion mode
- ECO mode for effective energy saving
- Emergency Power Off (EPO)
- Compatible with generator input
- Three-Stage Scalable Charging Design to Optimize Battery Performance
- The number of battery cells is adjustable
- An integrated maintenance bypass switch facilitates maintenance
- An optional isolation transformer ensures stable system power output and eliminates various types of noise
- N+X parallel redundancy application (max. 3)

MODEL	SCP Tower 3/3-10K (L)	SCP Tower 3/3-15K (L)	SCP Tower 3/3-20K (L)	SCP Tower 3/3-30K (L)
PHASE	3-phase in / 3-phase out			
CAPACITY *	10000 VA / 9000 W	15000 VA / 13500 W	20000 VA / 18000 W	30000 VA / 27000 W
INPUT				
Nominal Voltage	3 x 400 VAC (3-phase + Neutral)			
Input Voltage Range	190-520 VAC (3-phase) @50% load 305-478 VAC (3-phase) @100% load			
Frequency Range	46~54 Hz or 56~64Hz			
Power Factor	≥ 0.99 @ 100% load			
OUTPUT				
Output Voltage	3 x 400 VAC (3-phase + Neutral)			
AC Voltage Regulation (Batt. Mode)	± 1%			
Frequency Range (Synchronized Range)	46~54Hz or 56~64Hz			
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz			
Current Crest Ratio	3:1 (max)			
Harmonic Distortion	≤ 2 % THD (Linear Load) ; ≤ 5 % THD (Non-linear Load)			
Transfer	AC to DC			
Time	Inverter to Bypass			
Waveform (Batt. Mode)	Pure Sinewave			
EFFICIENCY				
AC Mode	90.5%	91.8%	91.8%	92.1%
ECO Mode		96.0%		
Battery Mode	87%	88.0%	88.0%	89.0%
BATTERY				
Battery Type	12 V / 9 Ah			
Standard Model	20(18-20 adjustable)	20(18-20 adjustable)×2	20(18-20 adjustable)×3	
Typical Recharge Time	9 hours recover to 90% capacity			
Charging Current (max.)	1 A	2 A	2 A	4 A
Charging Voltage	273 VDC±1% (20 Cells)			
Long-run Model				
Battery Type	Sealed Lead-Acid Battery			
Numbers				
Charging Current (max.)	4A	4A	4A	12A
Charging Voltage	273 VDC ± 1% (20 Cells)			
INDICATORS				
LCD Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions			
ALARM SOUND				
Battery Mode	Beeps once every 4 seconds			
Low Battery Power	Beeps Once Every Second			
Overload	Beeps once every 0.5 seconds			
Fault	Continuous Beeping			
PHYSICAL				
Standard Model	Dimension, D*W*H(mm)	815 x 250 x 826	815 x 250 x 826	815 x 300 x 1000
Net Weight (kg)		109	164	233.5
Long-run Model	Dimension, D*W*H(mm)	592 x 250 x 576	592 x 250 x 576	592 x 250 x 576
Net Weight (kg)		38	40	64
ENVIRONMENT				
Operating Humidity	< 95% RH @0-50 °C (Non-condensing)			
Noise Level	Less than 60dB @ 1 Meter			
MANAGEMENT				
Smart RS-232/USB	Supports Windows Family, Linux and MAC			
Optional SNMP	Power management from SNMP manager and web browser			

SCPH Tower 3-phase in / 3-phase out

30KVA-200KVA

SCOREMAN


- Output power factor can reach 0.9
- Supports parallel operation (max. 3)
- Battery packs can be shared in parallel mode
- The charging current can be adjusted flexibly
- Maximum efficiency up to 94%
- Supporting various types of loads (including half-wave loads)
- Multiple monitoring options available: SNMP + USB + RS-232
- Optional output isolation transformer
- Optional a 4.3" touch-sensitive color display (30K-80K)

MODEL	30K (L)*	40K (L)	60K (L)	80K (L)	100K (L)	120K (L)	160K (L)	200K (L)
PHASE	3-phase in / 3-phase out							
CAPACITY *	30KVA/27KW	40KVA/36KW	60KVA/54KW	80KVA/72KW	100KVA/90KW	120KVA/108KW	160KVA/144KW	200KVA/180KW
INPUT								
Nominal Voltage	3 x 400 VAC (3-phase + Neutral)							
Input Voltage Range	190-520 VAC (3-phase)@50% load ; 305-478 VAC (3-phase)@100% load							
Frequency Range	46~54 Hz or 56~64Hz							
Power Factor	≥ 0.99 @ 100% load							
OUTPUT								
Output Voltage	3 x 380V/380/400/415 VAC (3-phase + Neutral)							
AC Voltage Regulation (Batt. Mode)	± 1%							
Frequency Range (Synchronized Range)	46~54Hz or 56~64Hz							
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz							
Current Crest Ratio	3:1 (max)							
Harmonic Distortion	≤ 2 % THD (Linear Load) ; ≤ 4 % THD (Non-linear Load)							
Transfer	AC to DC							
Time	Inverter to Bypass							
Waveform (Batt. Mode)	Pure Sinewave							
Overload								
AC Mode	10 min. @ 100-110% , 1 min. @ 110-130% , 1 second @ > 130%							
Batt. Mode	30 seconds @ 100-110% , 10 seconds @ 110-130% , 1 second @ > 130%							
Parallel capacity	Up to three groups in parallel							
EFFICIENCY								
AC Mode	94.0%							
ECO Mode	97.0%							
Battery Mode	93.5%							
BATTERY								
Battery Type	12 V / 9 Ah							
Standard Model	20(16+16)×2	20(16+16)×2	20(16+16)×2	20(16+16)×2	20(16+16)×2	20(16+16)×2	20(16+16)×2	20(16+16)×2
Typical Recharge Time	9 hours recover to 90% capacity							
Charging Current (max.)	2.0A±10% (Recommended value)							
Charging Voltage	+/-218 VDC ± 10%							
Long-run Model								
Battery Type	Sealed Lead-Acid Battery							
Numbers	32~40(Adjustable)							
Charging Current (max.)	1A/2A/3A/4A± 10% (Settable)							
Charging Voltage	+/- 13.65V × number of batteries (number of batteries = 16 to 20)							
INDICATORS								
LCD Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions							
ALARM SOUND								
Battery Mode	Beeps once every 4 seconds							
Low Battery Power	Beeps Once Every Second							
Overload	Beeps once every 0.5 seconds							
Fault	Continuous Beeping							
PHYSICAL								
Standard Model	Dimension, D*W*H(mm)	815 x 300 x 1000	815 x 300 x 1000	815 x 300 x 1000	815 x 300 x 1000	815 x 300 x 1000	815 x 300 x 1000	815 x 300 x 1000
Net Weight (kg)		225	250	275	300	325	350	375
Long-run Model	Dimension, D*W*H(mm)	790 x 360 x 1010	940 x 567 x 1015	1040 x 567 x 1452	1040 x 567 x 1452	1040 x 567 x 1452	1040 x 567 x 1452	1040 x 567 x 1452
Net Weight (kg)		60	61	108	113	199	234	306
ENVIRONMENT								
Operating temperature	0-40°C							
Operating Humidity	< 95% Non-condensing							
Noise Level	< 60dB @ 1 Meter							
MANAGEMENT								
Smart RS-232/USB	Supports Windows Family, Linux and MAC							
Optional SNMP	Power management from SNMP manager and web browser							

3MPOWER Plus+ 3-phase 400V Modular UPS



SCOREMAN

- Modular design for easy scalability
- Output power factor can reach 1.0
- N+1 or N+R parallel redundancy design enhances system flexibility, stability, and reliability
- Modular design applied to power modules, STS modules, and battery modules for easy updates and maintenance, reducing after-sales service costs
- Adjustable charging current, with each module capable of a maximum charging current of 8A
- 5.7" LCD graphical display for more intuitive and clear visualization
- Optional 10" touch screen LCD

MODEL	3MPOWER Plus+ E 15U48	3MPOWER Plus+ 30U48	3MPOWER Plus+ 45U48	3MPOWER Plus+ 60U48	3MPOWER Plus+ 90U48	3MPOWER Plus+ 120U48	3MPOWER Plus+ 150U48	3MPOWER Plus+ 210U48	3MPOWER Plus+ 300U48
PHASE	3-phase in / 3-phase out								
CAPACITY	90KW or 60KW	90KW	120KW	120KW or 80KW	180KW or 120KW	200 KW	210 KW	300KW	
Battery Mode	External battery	Optional built-in battery module			External battery				
Power module capacity	PM-20HV : 20KVA/20KW or PM-30HV : 30KVA/30KW	PM-30HV : 30KVA/30KW	PM-30HV : 30KVA/30KW	PM-20HV : 20KVA/20KW or PM-30HV : 30KVA/30KW		PM-20HV : 20KVA/20KW	PM-30HV : 30KVA/30KW	PM-30HV : 30KVA/30KW	PM-30HV : 30KVA/30KW
Installable power modules	3	3	4	4	6	10	8	10	
Installable battery module sets	3	3	5	-	-	-	-	-	-
INPUT									
Nominal Voltage	3 x 380VAC/400VAC/415VAC (3-phase + Neutral)								
Input Voltage Range	305~478VAC @100% load, 208~304VAC @ < 70% load								
Nominal Frequency	50/60Hz(Adaptive)								
Frequency Range	40Hz ~70Hz								
Power Factor	100%load > 0.99; 50%load > 0.98								
THDI	< 3% @ 100%load								
OUTPUT									
Output Voltage	3 x 380VAC/400VAC/415VAC (3-phase + Neutral)								
Voltage stability (steady-state)	±1% typical value (balanced load), ±2% typical value (unbalanced load)								
Nominal Frequency	50/60Hz								
Frequency Range	46Hz~54Hzor 56Hz~64Hz								
Overload	60min @ 110% load, 10min @125% load, 60s @150% load, 200ms @ > 150%load								
Harmonic Distortion	≤ 2% THD(Linear Load) ≤ 4% THD(Non-linear Load)								
Efficiency	94.5%								
BATTERY/CHARGING									
Nominal Voltage	+/- 216V(12V x 36 cells)								
Maximum Voltage	+/- 240V(12V x 40 cells)								
Minimum Voltage	+/- 192V(12V x 32 cells)								
Float Charge Voltage	2.25V / Cell								
Bulk Charge Voltage	2.35V / Cell								
Temperature Compensation	Support								
Maximum charging current	20KW Module: 6A 30KW Module: 8A	8A	20KW Module: 6A, 30KW Module:8A		6A	8A	8A		
PHYSICAL									
Dimension, D*W*H(mm)	1100 x 514 x 763	1100 x 600 x 1475	1100 x 600 x 2010	1100 x 600 x 1475	1100 x 600 x 1475	1100 x 600 x 2010	1100 x 600 x 2010	1100 x 600 x 2010	1100 x 600 x 2010
ENVIRONMENT									
Operating Temperature	0 ~ 40°C								
Operating Humidity	0 ~ 95%(Non-condensing)								
Altitude	Rated power at <1000 meters								
IP Protection Rating	IP 20								
MANAGEMENT									
Smart RS-232/USB	Supports Windows Family, Linux and MAC								
Optional SNMP	Power management from SNMP manager and web browser								
SAFETY STANDARDS									
Safety Regulations	IEC/EN 60950-1; IEC/EN 62040-1								
Electromagnetic Regulations	IEC/EN 62040-2 Category C3								

* When the operating temperature exceeds 30°C, the output power factor will decrease. The power factor is 0.9 between 31°C and 35°C, and it becomes 0.8 between 36°C and 40°C.
 ** Each battery set includes 4 modules, with each battery module capable of accommodating 10 units of 12V/7Ah or 12V/9Ah lead-acid batteries; the capacity of each battery set is 30kWh.
 *** If the UPS is installed and used in an environment with an altitude exceeding 1000 meters, the output power should be reduced by 1% for every additional 100 meters in altitude.
 The current product specifications are subject to change without notice.



Model	Description	Dimension, D*W*H(mm)	Weight (kg)
PM-20HV	3P/3P 20KVA/20KW Power module	650 x 440 x 132(3U)	34
PM-30HV	3P/3P 30KVA/30KW Power module	650 x 440 x 132(3U)	34.5
Battery module	12V 9Ah lead-acid batteries x 10 cells	735 x 107 x 155	26

Axpert MKS Stand-alone Inverter
1KVA/2KVA/3KVA/4KVA/5KVA

SCOREMAN



- Pure sine wave inverter
- Selectable input voltage range suitable for household appliances and personal computers
- Flexible adjustable charging current
- Energy source for battery charging can be flexibly set via LCD: AC or solar
- Compatible with mains power and generator input
- Automatic restart after mains power recovery
- Overload and short-circuit protection
- Capable of operating nine units in parallel or forming a three-phase power output (limited to 3KVA/4KVA/5KVA)*
- Optional remote monitoring panel

MODEL	Axpert MKS 1K-12	Axpert MKS 2K-24	Axpert MKS 3K-24	Axpert MKS 3KP-24	Axpert MKS 4K	Axpert MKS 5K	Axpert MKS II 5K	Axpert MKS 5KP
Nominal Power	1000VA/ 1000W	2000VA/ 2000W	3000VA/ 3000W	3000VA/ 2400W	4000VA/ 4000W	5000VA/ 5000W	5000VA/ 5000W	5000VA/ 4000W
Parallel Operation	Not supported	Not supported	Not supported	Up to 9 units	Up to 9 units	Up to 9 units	Up to 9 units	Up to 9 units
INPUT								
Nominal Voltage	230 VAC							
Voltage Range	170-280VAC (for personal computers), 90-280VAC (for household appliances)							
Frequency	50 Hz/60 Hz (Adaptive)							
OUTPUT								
Voltage Range(Batt. Mode)	230VAC ± 5%							
Breakthrough Capability	2000VA	4000VA	6000VA		8000VA	10000VA		
Efficiency (peak)	90% - 93%	93%		90%	93%	93%	90%	90%
Transfer Time	10ms (for personal computers), 20ms (for household appliances)							
Waveform	pure sine wave							
BATTERY								
Battery Voltage	12 VDC (24VDC and 48VDC versions are also available)	24 VDC	24 VDC (48VDC version is also available)	24 VDC	48 VDC			24 VDC
Float charge Voltage	13.5 VDC	27 VDC	27 VDC	27 VDC	54 VDC	54 VDC Max.: 58VDC (optional 64 VDC, contact sales)	54 VDC	27 VDC
Overcharge Protection	15.5 VDC	31 VDC	31 VDC	30 VDC	60 VDC	60 VDC (optional 66 VDC, contact sales)	63 VDC	30 VDC
SOLAR CHARGER & AC CHARGER								
Max. Array Power	500 W	600W	600W	1000W	4000W		4500W	2000W
MPPT Operating Voltage Range	15 VDC ~ 80 VDC	30 VDC~ 66 VDC	30 VDC~ 66 VDC	30 VDC~ 80 VDC	60 VDC~ 115 VDC		120 VDC~ 430 VDC	30 VDC~ 115 VDC
Max. Open-circuit Voltage	102 VDC	75VDC	75VDC	100VDC	145 VDC		450 VDC	145 VDC
Max. Solar Charging Current	40A	25A	25A	40A	80 A		80 A	80A
Max. AC Charging Current	20A	30A	30A	60A	60 A		80 A	60A
Max. Total Charging Current	60A	55A	55A	100A	140 A		80 A	140A
PHYSICAL								
Dimension, D×W×H(mm)	95 x 240 x 316	100 x 272 x 355		100 x 272 x 385	120 x 295 x 468			180 x 310 x 475
Net Weight (kg)	5.2	7.0	7.4	7.5	12.5	13.5	11	12.5
ENVIRONMENT								
Operating Humidity	5%~95% (Non-condensing)							
Operating Temperature	0°C - 55°C							
Storage Temperature	-15°C - 60°C							

* The typical transfer time for parallel operation is 30ms.
 The current product specifications are subject to change without notice.



SC9110-9310 1-20KVA 1-phase in/1-phase out & 3-phase in/1-phase out Line-Frequency Online UPS

SCOREMAN



Product Introduction

This series of single input single output (SISO) / three input single output (TISO) UPS systems is specifically designed to meet the high reliability requirements of power supplies for network computer rooms and small intelligent devices, precision instruments, and other applications in various sectors such as finance, telecommunications, insurance, transportation, taxation, military, securities, energy, education, government, enterprises, and medical systems. These high-performance sine wave online UPS systems are particularly suitable for harsh power grid environments.

With its advanced design philosophy, this series of UPS systems is undoubtedly the best partner to ensure the stable operation of network systems. It can also provide users with optional accessories such as isolation transformers, external chargers, and SNMP adapters.

Product Features

- Extremely wide AC input voltage range, reducing the frequency of battery usage and effectively extending battery life.
- Extremely wide input frequency range, ensuring stable operation when connected to various types of fuel generators.
- Pure online double-conversion topology design, providing the best power quality.
- SPWM pulse-width modulation, IGBT power modules, and output isolation transformer, ensuring that the UPS output is free from grid fluctuations and noise interference.
- Advanced phase-locked loop synchronization technology and electronic static bypass switch, achieving zero transition time on output, meeting the high standards of precision equipment for power supply, and ensuring the continuity of load power supply.
- Advanced microprocessor control technology, comprehensively enhancing the system's availability and reliability.
- Advanced full-digital control technology for UPS inverter and PFC, achieving an input power factor greater than 0.98 and very low harmonic currents (optional).

Free from power outage worries, always fully powered.

Selection Guide

Model		SC9110-1K	SC9110-2K	SC9110-3K	SC9110-6K	SC9110-10K	SC9310-10K	SC9310-15K	SC9310-20K
Capacity *		1KVA/0.9KW	2KVA/1.8KW	3KVA/2.7KW	6KVA/5.4KW	10KVA/9KW	10KVA/9KW	15KVA/13.5KW	20KVA/18KW
INPUT									
Voltage Range	Minimum Transfer Voltage	160 VAC / 140 VAC / 120 VAC / 110 VAC ± 5%			110VAC±3% @ 50% load, 176VAC±3% @ 100% load				
	Minimum Recovery Voltage	175 VAC / 155 VAC / 135 VAC /125 VAC ± 5%			Minimum Transfer Voltage + 10V				
	Maximum Transfer Voltage	300 VAC 5%			300 VAC ± 3%				
	Maximum Recovery Voltage	290 VAC 5%			Maximum Transfer Voltage - 10V				
Frequency Range		46Hz - 54Hz @ 50Hz 56Hz - 64Hz @ 60Hz							
Phase		Single-phase Grounded System						Three-phase with Neutral Grounding	
Power Factor		≥0.99 @ 100% load							
OUTPUT									
Output Voltage		208/220/230/240VAC							
AC Voltage Range		± 1%							
Frequency Range (Synchronous Mode)		46Hz - 54Hz @ 50Hz 56Hz - 64Hz @ 60Hz							
Frequency Range(Batt. Mode)		50Hz ± 0.1HzOR 60Hz ± 0.1Hz							
Overload	AC Mode	100% - 110% :10 min 110% - 130% :1 min > 130% : 1 s					100% - 110% : 30min 110% - 130% : 5min > 130% : 1 s	100% - 110% : 15min 110% - 130% : 30s > 130% : 1 s	
	Battery Mode	100% - 110% :30 s 110% - 130% :10 s > 130% : 1 s					100% - 110% : 3min 110% - 130% : 30s > 130% : 1 s	100% - 110% : 5min 110% - 130% : 1 s > 130% : Immediate	
Peak Current Ratio		3:1 (max.)							
Harmonic Distortion		≤3%THD (linear load), ≤6%THD (non-linear load)							
Transfer Time	AC↔→Battery	0 ms							
	Inverter↔→Bypass	4 ms(Standard Conditions)							
Efficiency		> 89%							
BATTERY									
Long-run Unit	Model	12V							
	Number(cell)	3	6	8	16 - 20 (Adjustable)				
	Charging Current	1A	2A	4A	Preset: 4A ± 10%, Maximum Value: 6A ± 10%				
	Charging Voltage	N x 13.65 VDC ± 1% (N = Number of Battery Cells)							
PHYSICAL									
Long-run Unit	D×W×H(mm)	430 x 190 x 340 (mm)			500 x 240 x 616 (mm)				
Unit	Weight(Kg)	24	25	26.5	57	63	75	89	90
ENVIRONMENT									
Operating Temperature		0 ~ 40 °C							
Operating Humidity		< 95%Non-condensing							
Operating Altitude		< 1000m							
Noise Level		< 58 dB @ 1 Meter							
MANAGEMENT									
RS-232/USB (Optional)		Supports Windows family, Linux and MAC							
Optional SNMP		Power management from SNMP manager and web browser							

* The current product specifications are subject to change without notice.



SC93300 10-400KVA 3-phase in/1-phase out Line-Frequency Online UPS

SCOREMAN



Product Introduction

This series of UPS systems employs a high-frequency double-conversion structure with an output isolation transformer and advanced full-digital control technology. It achieves stable, clean, and uninterrupted power output, providing a power supply for critical loads that is free from grid interference and offers stable voltage and frequency. Additionally, this series of UPS systems provides a variety of communication solutions and a user-friendly interface, facilitating easy setup and monitoring of the equipment. The communication section offers MODBUS RS-232 and an expandable intelligent slot.

Product Features

- Online Double Conversion Design
- Ensures high reliability with DSP technology
- Electrical Isolation Transformer Design
- Capable of withstanding various loads
- Intelligent Battery Management
- Independent Ventilation Enhances Durability in Harsh Environments
- Adjustable Battery Quantity
- Accepts Dual Main Inputs
- Parallel Operation, with up to 4 Units (Optional)
- A Variety of Communication Options Available
- Supporting Non-neutral Input

Free from power outage worries, always fully powered.

Selection Guide

MODEL	SC9330 -10K	SC9330 -15K	SC9330 -20K	SC9330 -30K	SC9330 -40K	SC9330 -60K	SC9330 -80K	SC9330 -100K	SC9330 -120K	SC9330 -160K	SC9330 -200K	SC9330 -250K	SC9330 -300K	SC9330 -400K
Capacity *	10KVA / 9KW	15KVA / 13.5KW	20KVA / 18KW	30KVA / 27KW	40KVA / 36KW	60KVA / 54KW	80KVA / 72KW	100KVA / 90KW	120KVA / 108KW	160KVA / 144KW	200KVA / 180KW	250KVA / 225KW	300KVA / 270KW	400KVA / 360KW
INPUT														
Nominal Voltage	3x380VAC/400VAC/415VAC (3Ph+N)													
Voltage Range	304VAC ~ 456VAC (Ph-Ph)													
Frequency Range	46Hz~54Hz @ 50Hz ; 56Hz~64Hz @ 60Hz													
OUTPUT														
Nominal Voltage	3x380VAC/400VAC/415VAC (3Ph+N)													
Error	± 1% (Balanced Load)													
Nominal Frequency	50/60Hz ± 1 %													
Synchronization Rate	± 1Hz/s													
Output Waveform	Pure Sine Wave													
Voltage Harmonics	Linear Load < 2%, Non-linear Load < 4%													
Phase Difference	120° ± 1% (Balanced Load), 120° ± 2% (Unbalanced Load)													
Recovery Time	Reaches 90% of steady-state value within 3 cycles													
Overload	110% ~ 150% 10min~60s; > 160% 200ms													
Peak Current Ratio	3:1													
Power Factor	0.6~1(Capacitive or Inductive Load)													
Unbalanced Output Voltage	< 1%													
Current Limit	Overload, Short Circuit, Output Voltage Limit, High Peak Current, Peak Voltage Limit													
STATIC BYPASS														
Type	Solid-State Transfer													
Nominal Voltage	3x380VAC/400VAC/415VAC (3Ph+N)													
Nominal Frequency	50/60Hz													
Control Standard	Microprocessor Control													
Transfer Time	Synchronous Switching: 0 ms													
Overload	150~180% 1h~30s ; 180%~> 200% 30s~200ms													
Switch to Bypass	Immediate Switching at 160% Overload													
Recovery Transfer	Automatic Switching After Alarm Clearance													
MAINTENANCE BYPASS														
Type	Uninterruptible													
Nominal Voltage	3 x 400V (3Ph+N)													
Nominal Frequency	50/60 Hz													
Efficiency	> 90%													
BATTERY AND CHARGING														
Number of Battery Cells	12 VDC x 32 pcs (Suitable for 29-32 Cells)													
Battery Voltage	384 VDC (Adjustable Based on 32 Cells)													
Charging Method	CC/CV													
Error	± 1%													
Charging Current	Preset at 10A, Maximum 40A													
Charging Voltage	432 VDC (Based on 32 Cells)													
PHYSICAL														
Dimensions D×W×H (mm)	650x400x801			820x403x1150			980x640x1320			1050x701x1640			850x1630 x1900	900x1800 x1900
Weight (kg)	118	120	133	193	256	297	400	472	573	760	790	810	950	1100

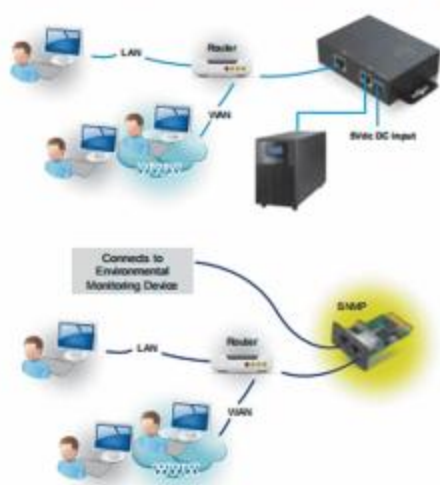
* The maximum current shall not exceed 40A.

* The current product specifications are subject to change without notice.



UPS Remote Monitoring and Connectivity

Voltronic Power provides complete connectivity solutions with comprehensive products and software package. These connectivity products ensure communication compatibility with a variety external devices through relay, SNMP, Modbus and WiFi.



Connectivity Product



WiFi Smart Card



SNMP Web Pro



SNMP Web Box



Modbus Card



DB9 Port



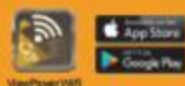
9-pin Port



EMD

WiFi Smart Card

Wi-Fi Smart Card can enable wireless communication between On-Line UPS and monitoring platform. Users have complete and remote monitoring and controlling experience for UPS when combining Wi-Fi Smart Card with ViewPower APP, available for both IOS and Android based device.



SNMP Web Pro Card , SNMP Web Box

Embedded with Web Server and installed with SNMP Web Manager, it provides real-time remote monitoring and controlling multiple UPSs from anywhere with internet access. Integrated with ViewPower Pro software, it can monitor and control a big-scale UPS monitoring system.

Modbus Card

The Modbus card provides UPS the functionality of communication with PCs through MODBUS RTU protocol. When each UPS installed with one modbus card, up to 31 UPSs can be monitored from one computer.

Relay Card

The AS400 communication card provides contact closures for remote monitoring UPS. To meet different application requirement, the AS400 card is capable of selection the status of the dry-contact signal (active close or active open) by setting jumper.

Environmental Monitoring Device (EMD)

This environmental monitoring device (EMD) is a connectivity device to remote monitor temperature, humidity or smoke (option) via SNMP device. It also provides two dry contacts to receive signals from up to 2 compatible devices such as security system and alarm system.