

On-line UPS

Solomon Venus Series

SVO 15U60K – SVO 15U90K



► Key Features

- Output Power Factor 1
- Modular Design Lower MTTR
- Adjustable Battery Numbers
- Adjustable Charging Current
- Built-in Maintenance Bypass Switch
- 5.7" Color Touch LCD Display
- Support 1+1 Cabinets Parallel

Model	SVO 15U60	SVO 15U90	
Phase	3-phase in / 3-phase out		
Cabinet Capacity	60kW	90kW	
Battery Type	External Battery		
One Power Module Capacity	20kVA / 20kW	30kVA / 30kW	
Max. Power Module Number	3		
Input			
Nominal Voltage	3 x380/400/415 Vac(3Ph+N)		
Voltage Range	305~478 Vac @ 70% -100% load; 208~478 Vac @ <70% load		
Nominal Frequency	50/60 (Auto sensing)		
Frequency Range	40~70Hz		
Power Factor	> 0.99 @100% load; >0.98 @ 50 % load		
Hamonic Distortion (THDi)	< 3% @ 100% load		
Output			
Nominal Voltage	3 x 380/400/415 Vac (3Ph+N)		
Voltage Regulation (Steady state)	≤±1% Typical (Balanced load); ≤±2% Typical (Imbalanced load)		
Nominal Frequency	50/60Hz		
Frequency Range (Synchronized)	46~54Hz or 56~64Hz		
Overload Protection	110% for 60 min, 125% for 10min, 150% for 1 min; >150% for 200ms		
Harmonic Distortion (THDv)	≤2% @ linear Load; ≤4% @ non-linear load		
Efficiency	Up to 94.5%		
Battery			
Norminal Voltage	±216V (12Vdc x 36 pcs)		
Maximum Voltage	±240V (12Vdc x 40 pcs)		
Minimum Voltage	±192V (12Vdc x 32 pcs)		
Float Charging Voltage	2.25Vdc /Cell		
Boots Charging Voltage	2.35Vdc /Cell		
Temperature Compensation	Yes		
Maximum Charging Current	6A(Adjustable)	8A(Adjustable)	
Interface			
SNMP	Optional		
RS-232 / USB Port	Yes		
Physical			
Cabinet	Dimensions WxHxD (mm)	515 x 760 x 1000	
	Weight (Kg)	182	183.5
Power Module	Dimensions WxHxD (mm)	440 x 132 x 650	
	Weight (Kg)	34.5	34
Battery Cabinet	Dimensions WxHxD (mm)	514 x 610 x 1000	
	Weight (Kg)	34.5	34
Enviroment			
Operating Humidity	< 95% non-condensing		
Operating Temperature	0-40°C		

On-line UPS

Solomon Venus UPS Series

SVO 30U90K – SVO 42U300K



► Key Features

- High Scalability
- Output Power Factor 1
- Modular Design Lower MTTR
- Power Module Hot-swap
- N+X Parallel Redundancy for Power Guarantee
- Easy Installation and Maintenance
- Flexible Battery Configuration
- Adjustable Battery Numbers
- Adjustable Charging Current
- High Overload Capability
- 5.7" Color Touch Type LCD Display
- Optional 10" Touch Type LCD Display

Model	SVO 30U90K	SVO 42U120K	SVO 30U120 / 30U80K	SVO 30U180 / 30U120K	SVO 42U200K	SVO 42U210K	SVO 42U300K
Phase	3-phase in / 3-phase out						
Cabinet Capacity	90kW	120kW	120 or 80kW	180 or 120kW	200kW	210kW	300kW
Battery Type	Built-in Battery		External Battery				
One Power Module Capacity	30kW		30kW or 20kW		20kW	30kW	30kW
Max. Power module Number	3	4	4	6	10	7+1	10
Max. Battery Set Number	3	5					
Input							
Nominal Voltage	3 x380/400/415 Vac (3Ph+N)						
Voltage Range	305~478 Vac @ 100% load; 208~304 Vac @ <70% load						
Nominal Frequency	50/60 (Auto sensing)						
Frequency Range	40~70Hz						
Power Factor	> 0.99 @100% load; >0.98 @ 50 % load						
Hamonic Distortion (THDi)	< 3% @ 100% load						
Output							
Nominal Voltage	3 x 380/400/415 Vac (3Ph+N)						
Voltage Regulation (Steady state)	$\leq \pm 1\%$ Typical (Balanced load); $\leq \pm 2\%$ Typical (Imbalanced load)						
Nominal Frequency	50/60Hz						
Frequency Range (Synchronized Range)	46~54Hz or 56~64Hz						
Overload Protection	110% for 60 min, 125% for 10min, 150% for 1 min; >150% for 200ms						
Harmonic Distortion (THDv)	$\leq 2\%$ @ linear load; $\leq 4\%$ @ non-linear load						
Efficiency	Up to 94.5%						
Battery							
Norminal Voltage	$\pm 216\text{Vdc}$ (12Vdc x 36 pcs)						
Maximum Voltage	$\pm 240\text{Vdc}$ (12V x 40 pcs)						
Minimum Voltage	$\pm 192\text{Vdc}$ (12V x 32 pcs)						
Float Charging Voltage	2.25Vdc /Cell						
Boots Charging Voltage	2.35Vdc /Cell						
Temperature Compensation							
Maximum Charging Current (Per Power Module)	8A		8A for 30kW power module 6A for 20kW power module		6A		8A
Interface							
SNMP	Optional						
RS-232 / USB Port	Yes						
Physical							
Dimensions WxHxD (mm)	600 x 1475 x 1100	600 x 2010 x 1100	600 x 1475 x 1100	600 x 1475 x 1100	600 x 2010 x 1100		
Weight (Kg)	675	932	335 or 333	437.5 or 434.5	611	549	620
Enviroment							
Operating Humidity	< 95% non-condensing						
Operating Temperature	0-40°C						

On-line UPS

Rack Configuration

Model	30U90K	30U120K	30U180K
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Height	30U	30U	30U
STS Capacity	90k	120k	210k
Max. Number of Installable Power Module	3	4	6
Number of Installable Battery Modules in Layer	3	N/A	N/A
Max. Capacity of Installing HV 20K Module	60kW	80kW	120kW
Max. Capacity of Installing HV 30K Module	90kW	120kW	180kW
Max Capabity w/Internal Battery, No External Battery	60kW (Maximum with 3layers of battery modules)	N/A	N/A
Built-in Empty Battery Modules in BOM	Yes, 12 pcs	No	No

Model	42U120K	42U210K	42U300K
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Height	42U	42U	42U
STS Capacity	120k	210k	300k
Max. Number of Installable Power Module	4	8	10
Number of Installable Battery Modules in Layer	5	N/A	N/A
Max. Capacity of Installing HV 20K Module	80kW	160kW	200kW
Max. Capacity of Installing HV 30K Module	120kW	210kW(If installed with 8 pcs, one is for redundancy)	300kW
Max Capabity w/Internal Battery, No External Battery	90k (Maximum with 5 layers of battery modules)	N/A	N/A
Built-in Empty Battery Modules in BOM	Yes, 20 pcs	No	No

Model	30U80K	30U120K	30U200K
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Height	30U	30U	42U200
STS Capacity	90k	120k	210k
Max. Number of Installable Power Module	4	6	10
Number of Installable Battery Modules in Layer	N/A	N/A	N/A
Max. Capacity of Installing HV 20K Module	80kW	120kW	200kW
Max. Capacity of Installing HV 30K Module	N/A	N/A	N/A
Max Capabity w/Internal Battery, No External Battery	N/A	N/A	N/A
Built-in Empty Battery Modules in BOM	N/A	N/A	N/A

Model	15U60K	15U90K	30U120K	30U150K
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Height	15U	15U	30U	30U
STS Capacity	60k	90k	60k	90k
Max. Number of Installable Power Module	3	3	3	3
Number of Installable Battery Modules in Layer	N/A	N/A	3	3
Max. Capacity of Installing HV 20K Module	60kW	60kW	60kW	60kW
Max. Capacity of Installing HV 30K Module	N/A	90kW	N/A	90kW
Max Capabity w/Internal Battery, No External Battery	N/A	N/A	60kW	60kW
Built-in Empty Battery Modules	No	No	The battery module of SVO15U60K-15U90K is easy-replaceable without hot-swappable design	