

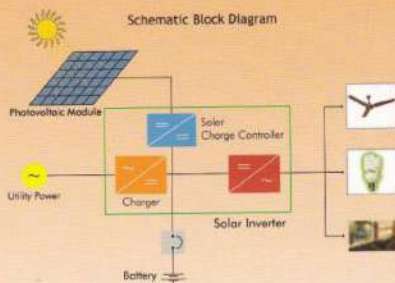
SWEES

HPH SW-S Series

Pure Sine Wave Solar Inverters for Home and Office use with built in AC Charger, Solar power charger and LCD Display

Features

- Advanced Microprocessor based design
- Multistage charger
- Separate port for Solar power input with built in Solar power charger
- Compact design
- Fast Action AC Synchronized Transfer Switch
- Heat-Sink built in internal
- Soft Start
- Input & Output Isolated
- Auto temperature control fan
- Reverse polarity protection
- Temperature protection
- Over Load protection
- Input high / Low voltage protection
- Low Battery alarm / Low Battery Shut-down
- Remote Control (optional)
- Compatible with both Linear and Non-Linear Loads



Accredited as Channel Partner for Off-grid and Decentralized Solar Applications (PV) under JNNSM by MNRE
Empanelled as Energy Service Company with Bureau of Energy Efficiency (BEE)



Technical Specification

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Capacity	VA/Watt	1.2 kVA / 800W	2.4kVA / 1600W	3.6kVA / 2400W	5kVA / 4000W	6kVA / 6000W	8kVA / 8000W	
Model No.		SWESS HPH SW - S 12 12	SWESS HPH SW - S 24 24	SWESS HPH SW - S 36 24	SWESS HPH SW - S 50 24	SWESS HPH SW - S 60 48	SWESS HPH SW - S 80 48	
Input	Nominal Voltage		110/115/120Vac or 220/230/240Vac				220/230/240Vac	
	Acceptable Voltage Range		60~135 Vac or 120~270 Vac				120~270 Vac	
	Frequency		45 Hz ~ 70 Hz Auto sensing					
	Voltage Range	Low Voltage Transfer	60 Vac ±2% ; 120 Vac ±2%				120 Vac ±2%	
		Low Voltage Return	65 Vac ±2% ; 130 Vac ±2%				130 Vac ±2%	
High Voltage Transfer		135 Vac ±2% ; 270 Vac ±2%				270 Vac ±2%		
High Voltage Return		130 Vac ±2% ; 260 Vac ±2%				260 Vac ±2%		
Output	Voltage		110/115/120 Vac or 220/230/240 Vac re-settable via LCD panel					
	Voltage Regulation (Bat Mode)		<3% RMS for entire battery voltage range					
	Frequency Regulation	Line Mode	Synchronized to AC Main					
		Battery Mode	50 Hz or 60 Hz ±0.1Hz					
	Power Factor		0.67		0.8		1.0	
	Wave Form		Pure Sine Wave					
	Effeciency		>75%		>80%			
	Overload Protection	Line Mode	>110%, then Buzzer Alarm and Amber LED Blink Continuously.					
		Battery Mode	110% - 150% for 30 sec; >150% for 200ms, then UPS Shuts Down					
	Short Circuit Protection	Line Mode	Circuit Breaker					
Battery Mode		Electronic Circuit						
DC Start	Cold Start	Yes						
Transfer Time	Typical	< 8 ms.						
Battery	Battery Voltage	12 Vdc		24 Vdc		48 Vdc		
	Backup Time	Depends on batteries connected (Max Batter capacity recommended 400 to 600 AH)						
	Recharging Current	>40A		>50A		>60A		
Control Panel	LCD Display		UPS status, I/P&O/P Voltage Frequency, Load Level					
	LED Display		Battery Voltage & Level, Temperature, Model					
	Battery Mode		Normal (Green), Warning (Amber), Fault (Red)					
Audible Alarm	Low Battery		Beeping every 4 seconds					
	UPS Fault		Beeping every second					
	Overload		Beeping Continuously					
			Beeping twice per second					
Parameter Re-settable		Voltage, Frequency, 5 steps Charge current						
Environment	Operation Temperature		0-40 degree C; 32-104 degree F					
	Relative Humidity		0-95% non-condensing					
	Audible Noise		Less than 55dBA (at 1M)					
Physical	Wall Mounted Type (W*H*D) mm	298*400*150	298*450*190	298*450*190	415*600*260	415*600*260	415*600*260	
	Wall Mounted Type Net Weight (Kgs)	14.8	23.0	24.2	49.2	51.4	53.6	
Safety Conformance	Safety Standard		EN62040-1-1					
	EMC		EN62040-2					
	Marks		CE, cUL, UL					
Solar Charger	Separate port for solar power input		For all models					
	Battery Voltage		12V(1.2kVA)		24V (2.4kVA / 3.6 kVA / 5.0 kVA)		48V (6.0 kVA /8.0 kVA)	
	Charging Voltage		13.8V		27.7V		55.2V	
	Solar Maximum Peak Voltage		22.0V		45.0V		100V	
	Solar Charging Working Voltage		11.7V±0.5V		23.5V±1V		44V±3V	
	Maximum Charging Current		50A		50A		50A	
	Polarity Protection		YES		YES		YES	
	Backflow Protection		YES		YES		YES	

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ENERGY SYSTEMS LIMITED

Authorised Dealer
Vel Power Ventures



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