

# Sun Hybrid Inverter

## SW5-8KWHDC-US



### More Safe

- Surge protection (SPD)
- Polarity reverse protection / short circuit protection
- IP65
- Optional Arc-fault prevention (AFCI)
- Optional rapid shut-down (RSD)



### More Powerful

- Up to 150% PV
- Up to 3 MPPT
- Powerful back-up overload
- Split-phase support (Transformerless)



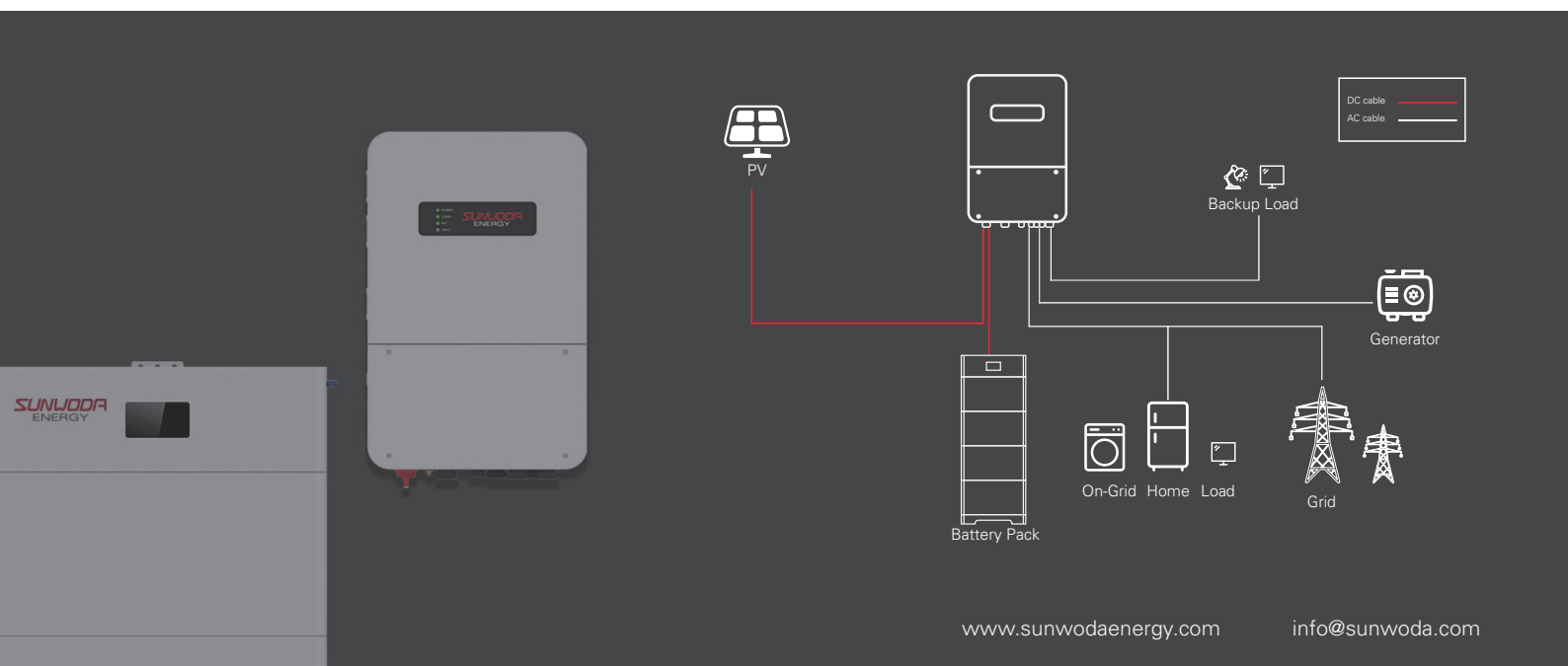
### More Smart





- CAN / RS485 / 4G
- Digital IO
- Mobile / web APP



### More Flexible

- Parallel installation
- UPS level switching <10ms
- Diesel generator support



Parameters	SW5KWHDC-US	SW6KWHDC-US	SW7.6KWHDC-US	SW8KWHDC-US
				
<b>INPUT(DC)</b>				
Max.DC power	7.5KW	9KW	11.4KW	12KW
Max.input voltage	600V	600V	600V	600V
MPPT voltage range/rated input voltage	100-500V	100-500V	100-500V	100-500V
Min. input voltage/initial input voltage	100V	100V	100V	100V
Max. input current inputA/Input B	12.5A	12.5A	12.5A	12.5A
Max. input current per string inputA/Input B	12.5A	12.5A	12.5A	12.5A
Number of independent MPPT inputs/strings per MPPT input	2	2	3	3
<b>Output(AC)</b>				
rated power(at 230V)	5KW	6KW	7.6KW	8KW
Max. AC apparent power	5.5KW	6.6KW	6.6KW	8.8KW
Nominal AC voltage range	120/240 AC	120/240 AC	120/240 AC	120/240 AC
rated power frequency/ rated grid voltage	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Max. output current	26.4A(2 times for 10s)	31.8A(2 times for 10s)	40.2A(1.5 times for 10s)	42.3A(1.5 times for 10s)
Nominal.output current	20.6A	25A	31.7A	33.3A
Input.Peak AC current	37.3A	44.9A	56.9A	60A
Adjustable displacement power factor	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging
Switch time to backup mode	10ms	10ms	10ms	10ms
Feed-in phases/connection phases	single phase/split phase	single phase/split phase	single phase/split phase	single phase/split phase
<b>Efficiency</b>				
Max. efficiency	97.7%	97.7%	97.7%	97.7%
<b>Battery</b>				
rated battery voltage	350V-450V	350V-450V	350V-450V	350V-450V
Max. charge current	29A	34.2A	38A	38A
Max.discharge current	29A	34.2A	38A	38A
<b>Protection</b>				
PV String Input Reverse Polarity Protection				Integrated
PV Arc Fault Detection				Integrated
Insulation Resistor Detection				Integrated
Residual Current Monitoring Unit				Integrated
Output Over Current Protection				Integrated
Output Shorted Protection				Integrated
Rapid Shutdown	Optional	Optional	Optional	Optional
Anti-islanding Protection	YES	YES	YES	YES
Surge Protection	Type III	Type III	Type III	Type III
Integrated battery fuse	YES	YES	YES	YES
<b>General data</b>				
Dimensions(W/H/D)	620×412×215	620×412×215	620×412×215	620×412×215
Weight of inverter/battery	28KG	28KG	29.5KG	29.5KG
Operating temperature range in battery operation	-25°C ~ 60°C	-25°C ~ 60°C	-25°C ~ 60°C	-25°C ~ 60°C
Noise emission	<45 dB	<45 dB	<45 dB	<45 dB
Topology	Non-isolated	Non-isolated	Non-isolated	Non-isolated
Cooling method	Smart Air Cooling	Smart Air Cooling	Smart Air Cooling	Smart Air Cooling
Degree of protection inverter/battery section	IP65	IP65	IP65	IP65
Maximum permissible value for relative humidity	<95%	<95%	<95%	<95%
<b>Features</b>				
Mounting type	Wall-mount bracket	Wall-mount bracket	Wall-mount bracket	Wall-mount bracket
Interface: Speedwire/Webconnect	CAN/RS485/Digital IO/WLAN			
Inverter warranty	5/10			
Certificates and approvals	UL1741\IEEE1547\ RULE21\ FCC 15 class B\UL1998\CSA22.2 No.107.1			