

# HPS50/100/150-US

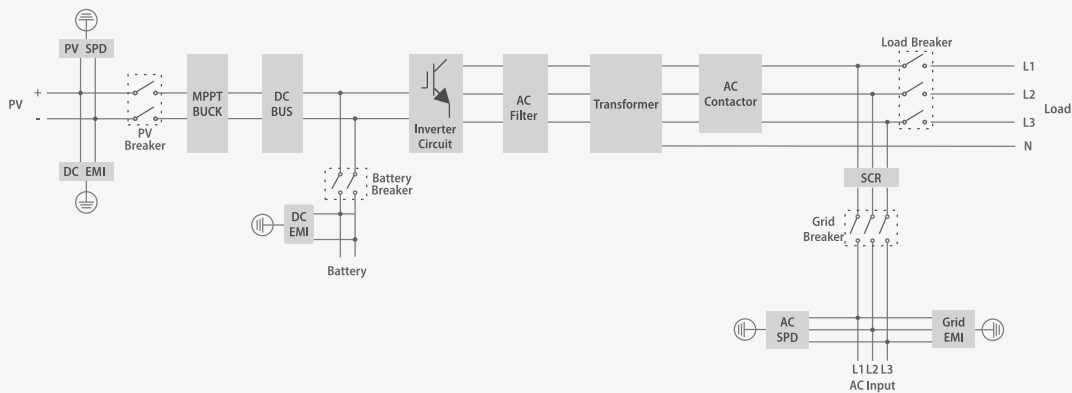
Large capacity all-in-one hybrid inverter for commercial application, supporting up to 600kW system capacity, complied with American standard.

## Features

-  All-in-one hybrid inverter
-  Seamless on/off grid transfer within 10 ms
-  Programmable working mode
-  Support remote control of DG
-  Touchscreen LCD
-  Quadruple capacity by paralleling 4 units



## Block Diagram



	HPS50-US	HPS100-US	HPS150-US
<b>AC(on-grid)</b>			
Apparent power	55kVA	110kVA	165kVA
Rated power	50kW	100kW	150kW
Rated voltage	200~240V Wye / High-leg Delta with split phase(Opt)	200~240V Wye / High-leg Delta with split phase(Opt)	200~240V Wye / High-leg Delta with split phase(Opt)
Rated current	152~120A	304~241A	456~361A
Voltage range	200-240V	200-240V	200-240V
Rated frequency	50/60Hz	50/60Hz	50/60Hz
Frequency range	45~55/55~65Hz	45~55/55~65Hz	45~55/55~65Hz
THDI	<3%	<3%	<3%
PF	0.8 lagging~0.8 leading	0.8 lagging~0.8 leading	0.8 lagging~0.8 leading
AC connection	3/N/PE Wye / 3/N/PE Delta(Opt)	3/N/PE Wye / 3/N/PE Delta(Opt)	3/N/PE Wye / 3/N/PE Delta(Opt)
AC input	50kVA	100kVA	150kVA

<b>AC(off-grid)</b>			
Apparent power	55kVA	110kVA	165kVA
Rated power	50kW	100kW	150kW
Rated voltage	200~240V Wye / High-leg Delta with split phase(Opt)	200~240V Wye / High-leg Delta with split phase(Opt)	200~240V Wye / High-leg Delta with split phase(Opt)
Rated current	144-120A	304-241A	456-361A
THDU	≤2% linear	≤2% linear	≤2% linear
Rated frequency	50/60Hz	50/60Hz	50/60Hz
Overload capability	110%-10 mins 120%-1 min	110%-10 mins 120%-1 min	110%-10 mins 120%-1 min

<b>DC (Battery and PV)</b>			
Max. PV open-circuit voltage	1000V DC	1000V DC	1000V DC
Max. PV power	75kWp	150kWp	225kWp
PV MPPT voltage range	480V-800V DC	480V-800V DC	480V-800V DC
Battery voltage range	400V-600V	400V-600V	400V-600V
Max. charge power	75kW	150kW	225kW
Max. discharge power	55kW	110kW	165kW
Max. charge current	150A	300A	450A
Max. discharge current	138A	275A	413A

<b>General Information</b>			
Protection degree	IP20	IP20	IP20
Noise emission	<65dB(A)@1m	<65dB(A)@1m	<65dB(A)@1m
Operating temperature	-25 °C~+55 °C	-25 °C~+55 °C	-25 °C~+55 °C
Cooling method	Forced-air	Forced-air	Forced-air
Relative humidity	0-95% non-condensing	0-95% non-condensing	0-95% non-condensing
Max. altitude	6000m (derate over 3000m)	6000m (derate over 3000m)	6000m (derate over 3000m)
Dimension (W/H/D)	950/1860/750mm	1200/1900/800mm	1200/1900/800mm
Weight	590kg	923kg	1200kg
Build-in transformer	Yes	Yes	Yes
Lightning protection	Type II	Type II	Type II
Transfer between on/off grid	Automatic≤10ms	Automatic≤10ms	Automatic≤10ms
Standby consumption	<30W	<30W	<30W

<b>Communication</b>			
Display	Touch screen	Touch screen	Touch screen
Communication	RS485/CAN	RS485/CAN	RS485/CAN

<b>Certificate</b>			
UL1741 , CSA-C22.2			

\* The MPPT voltage of PV strings should be 50~200V higher than the Max battery voltage.