

Datasheet



HPS100/120/150-US

Overview

Large capacity all-in-one hybrid inverter for commercial application, supporting up to 600kW system capacity

Features



All-in-one hybrid inverter



Seamless on/off grid transfer



Programmable working mode



Support remote control of DG

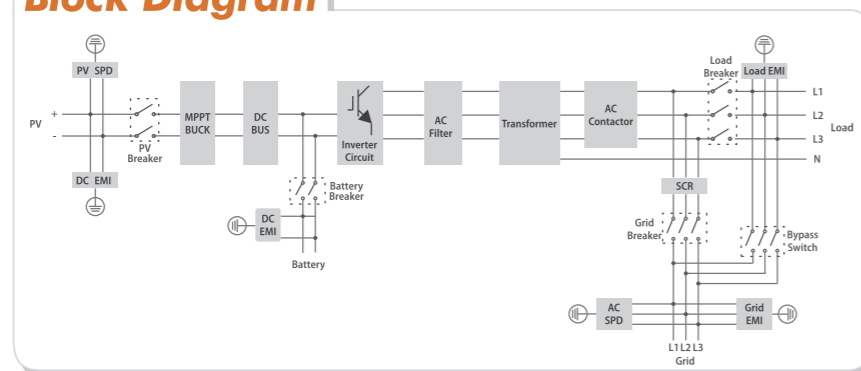


Touchscreen LCD



Quadruple capacity by paralleling 4 units

Block Diagram



HPS100-US					HPS120-US					HPS150-US					
AC (Grid-connected)															
Apparent power	110kVA					132kVA					165kVA				
Rated power	100kW					120kW					150kW				
Rated voltage	190V	200V	208V	220V	240V	190V	200V	208V	220V	240V	190V	200V	208V	220V	240V
Rated current	304A	289A	278A	262A	241A	365A	346A	333A	315A	289A	456A	433A	416A	394A	361A
Voltage range	171-209V 180-220V 187-229V 198-242V 216-264V					171-209V 180-220V 187-229V 198-242V 216-264V					171-209V 180-220V 187-229V 198-242V 216-264V				
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	0.8lagging~0.8leading					0.8lagging~0.8leading					0.8lagging~0.8leading				
AC connection	3/N/PE					3/N/PE					3/N/PE				
AC input	140kVA	145kVA	150kVA	150kVA	150kVA	180kVA	180kVA	180kVA	180kVA	180kVA	180kVA	190kVA	195kVA	205kVA	225kVA

AC (Off-grid)															
Apparent power	110kVA					132kVA					165kVA				
Rated power	100kW					120kW					150kW				
Rated voltage	190V	200V	208V	220V	240V	190V	200V	208V	220V	240V	190V	200V	208V	220V	240V
Rated current	304A	289A	278A	262A	241A	365A	346A	333A	315A	289A	456A	433A	416A	394A	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				

DC (Battery and PV)															
Max. PV open-circuit voltage	1000V DC					1000V DC					1000V DC				
Max. PV power	150kWp					180kWp					225kWp				
PV MPPT voltage range	480V-800V DC					480V-800V DC					480V-800V DC				
Battery voltage range at Max. charge power	500V-600V					517V-600V					500V-600V				
Battery voltage range	352-600V					352-600V					352-600V				
Max. charge power	150kW					180kW					225kW				
Max. discharge power	110kW					132kW					165kW				
Max. charge current	300A					350A					450A				
Max. discharge current	313A					374A					467A				

General Information															
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	Forced-air					Forced-air					Forced-air				
Relative humidity	0-95% non-condensing					0-95% non-condensing					0-95% non-condensing				
Maximum altitude	6000m (derate over 3000m)					6000m (derate over 3000m)					6000m (derate over 3000m)				
Dimension (W/H/D)	1200/1900/800mm					1200/1900/800mm					1200/1900/800mm				
Weight	948kg					1025kg					1230kg				
Build-in transformer	Yes					Yes					Yes				
Transfer between on/off grid	Automatic≤10ms					Automatic≤10ms					Automatic≤10ms				
Standby consumption	<30W					<30W					<30W				

Communication															
Display	Touch screen					Touch screen					Touch screen				
Communication	RS485/CAN					RS485/CAN					RS485/CAN				

* Battery voltage is determined by the following equation:
 $V_{min} = 352 \times V_n / V_1$, $V_{Max} = (V_{mpp} - 100) \times V_n / V_2$, $V_{Max} < 600VDC$
 V_1 is battery cell discharge cut-off voltage, V_2 is battery cell boost charge voltage, V_n is battery cell nominal voltage.