

# HPS30/50-US



## LEADING - EDGE TECHNOLOGY

### Overview

Large capacity all-in-one hybrid inverter for commercial application, supporting up to 200kW system capacity

### Features



All-in-one hybrid inverter



Seamless on/off grid transfer



Programmable working mode



Supports remote control of DG

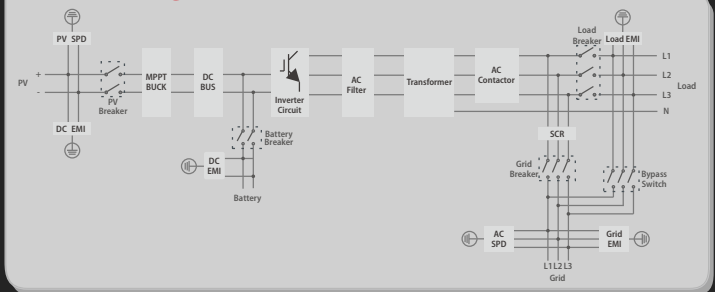


Touchscreen LCD



Quadruple capacity by paralleling 4 units

### Block Diagram



### Shenzhen Ateess Power Technology Co.,Ltd

1st Floor of Building 3 at Sector B and 3rd Floor of Building 9,Henglong Industrial Park, No.4 Industrial Zone, Shuitian Community, Shiyan Street, Baoan District, Shenzhen

# Datasheet

## HPS30-US

## HPS50-US

### AC (Grid-connected)

Apparent power	33kVA					55kVA				
Rated power	30kW					50kW				
Rated voltage	190V	200V	208V	220V	240V	190V	200V	208V	220V	240V
Rated current	91A	87A	83A	79A	72A	152A	144A	139A	131A	120A
Voltage range	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				
Frequency range	45~55/55~65Hz					45~55/55~65Hz				
THDI	<3%					<3%				
PF	0.8lagging~0.8leading					0.8lagging~0.8leading				
AC connection	3/N/PE					3/N/PE				
AC input	45kVA					75kVA				

### AC(Off-grid)

Apparent power	33kVA					55kVA				
Rated power	30kW					50kW				
Rated voltage	190V	200V	208V	220V	240V	190V	200V	208V	220V	240V
Rated current	91A	87A	83A	79A	72A	152A	144A	139A	131A	120A
THDU	≤2%linear					≤2%linear				
Rated frequency	50/60Hz					50/60Hz				
Overload capability	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				
Max. PV power	45kWp					75kWp				
PV MPPT voltage range	480V-800V DC					480V-800V DC				
Battery voltage range at Max. charge power	450V-600V					500V-600V				
Battery voltage range	352-600V					352-600V				
Max. charge power	45kW					75kW				
Max. discharge power	33kW					55kW				
Max. charge current	100A					150A				
Max. discharge current	93A					156A				

### General Information

Protection degree	IP20					IP20				
Noise emission	<65dB(A)@1m					<65dB(A)@1m				
Operating temperature	-25 °C~+55 °C					-25 °C~+55 °C				
Cooling	Forced-air					Forced-air				
Relative humidity	0-95% non-condensing					0-95% non-condensing				
Maximum altitude	6000m (derate over 3000m)					6000m (derate over 3000m)				
Dimension (W/H/D)	700/1660/600mm					950/1860/750mm				
Weight	355kg					610kg				
Build-in transformer	Yes					Yes				
Transfer between on/off grid	Automatic≤10ms					Automatic≤10ms				
Standby consumption	<30W					<30W				

### Communication

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

\* Battery voltage is determined by the following equation:

$$V_{min} = 352 \times V_n / V_1, V_{Max} = (V_{mpp} - 100) \times V_n / V_2, V_{Max} < 600VDC$$

V1 is battery cell discharge cut-off voltage, V2 is battery cell boost charge voltage, Vn is battery cell nominal voltage.