

HPS30/50/100/120/150



LEADING - EDGE TECHNOLOGY

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



Supports remote control of DG

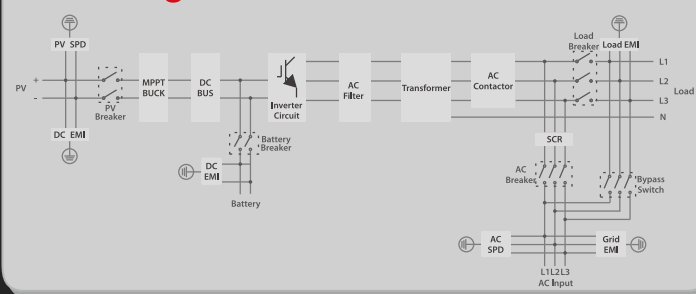


Touchscreen LCD



Quadruple capacity by paralleling 4 units

Block Diagram



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Datasheet

HPS30

HPS50

HPS100

HPS120

HPS150

AC (Grid-connected)

<i>Apparent power</i>	33kVA	55kVA	110kVA	132kVA	165kVA
<i>Rated power</i>	30kW	50kW	100kW	120kW	150kW
<i>Rated voltage</i>	400V	400V	400V	400V	400V
<i>Rated current</i>	43A	72A	144A	173A	217A
<i>Voltage range</i>	360V - 440V	360V - 440V	360V - 440V	360V - 440V	360V - 440V
<i>Rated frequency</i>	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
<i>Frequency range</i>	45~55/55~65Hz	45~55/55~65Hz	45~55/55~65Hz	45~55/55~65Hz	45~55/55~65Hz
<i>THDI</i>	<3%	<3%	<3%	<3%	<3%
<i>PF</i>	0.8lagging~0.8leading	0.8lagging~0.8leading	0.8lagging~0.8leading	0.8lagging~0.8leading	0.8lagging~0.8leading
<i>AC connection</i>	3/N/PE	3/N/PE	3/N/PE	3/N/PE	3/N/PE
<i>AC input</i>	60kVA	100kVA	200kVA	240kVA	240kVA

AC(Off-grid)

<i>Apparent power</i>	33kVA	55kVA	110kVA	132kVA	165kVA
<i>Rated power</i>	30kW	50kW	100kW	120kW	150kW
<i>Rated voltage</i>	400V	400V	400V	400V	400V
<i>Rated current</i>	43A	72A	144A	173A	217A
<i>THDU</i>	≤2%linear	≤2%linear	≤2%linear	≤2%linear	≤2%linear
<i>Rated frequency</i>	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
<i>Overload capability</i>	110%-10 mins 120%-1 min	110%-10 mins 120%-1 min	110%-10 mins 120%-1 min	110%-10 mins 120%-1 min	110%-10 mins 120%-1 min

DC (Battery and PV)

<i>Max. PV open-circuit voltage</i>	1000V DC	1000V DC	1000V DC	1000V DC	1000V DC
<i>Max. PV power</i>	45kWp	75kWp	150kWp	180kWp	225kWp
<i>PV MPPT voltage range</i>	480V-800V DC	480V-800V DC	480V-800V DC	480V-800V DC	480V-800V DC
<i>Battery voltage range at Max. charge power</i>	450V-600V	500V-600V	500V-600V	517V-600V	500V-600V
<i>Battery voltage range</i>	352-600V	352-600V	352-600V	352-600V	352-600V
<i>Max. charge power</i>	45kW	75kW	150kW	180kW	225kW
<i>Max. discharge power</i>	33kW	55kW	110kW	132kW	165kW
<i>Max. charge current</i>	100A	150A	300A	350A	450A
<i>Max. discharge current</i>	93A	156A	313A	374A	467A

General Information

<i>Protection degree</i>	IP20	IP20	IP20	IP20	IP20
<i>Noise emission</i>	<65dB(A)@1m	<65dB(A)@1m	<65dB(A)@1m	<65dB(A)@1m	<65dB(A)@1m
<i>Operating temperature</i>	-25 °C~+55 °C	-25 °C~+55 °C	-25 °C~+55 °C	-25 °C~+55 °C	-25 °C~+55 °C
<i>Cooling</i>	Forced-air	Forced-air	Forced-air	Forced-air	Forced-air
<i>Relative humidity</i>	0-95% non-condensing	0-95% non-condensing	0-95% non-condensing	0-95% non-condensing	0-95% non-condensing
<i>Maximum altitude</i>	6000m (derate over 3000m)	6000m (derate over 3000m)	6000m (derate over 3000m)	6000m (derate over 3000m)	6000m (derate over 3000m)
<i>Dimension (W/H/D)</i>	700/1660/600mm	950/1860/750mm	1200/1900/800mm	1200/1900/800mm	1200/1900/800mm
<i>Weight</i>	355kg	610kg	948kg	1025kg	1230kg
<i>Build-in transformer</i>	Yes	Yes	Yes	Yes	Yes
<i>Lightning protection</i>	Type II	Type II	Type II	Type II	Type II
<i>Transfer between on/off grid</i>	Automatic≤10ms	Automatic≤10ms	Automatic≤10ms	Automatic≤10ms	Automatic≤10ms
<i>Standby consumption</i>	<30W	<30W	<30W	<30W	<30W

Communication

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

Certificate CE, MEA, PEA, UKCA, AS 4777.2, EN 61000-6-4:2007+A1:2011, EN61000-6-2:2005, EN62109-1:2010, EN62109-2:2011, EN 50549-1:2019, IEC62109.1, IEC62109.2, NRS 097-2-1:2017, G99, VDE-AR-N 4105:2018, DIN VDE V 0124-100:2020-06, PSE:2018-12, Inmetro, C10/C11, VDE 0126, UTE-C, 15-712

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