





HPS50000TL-US-208A

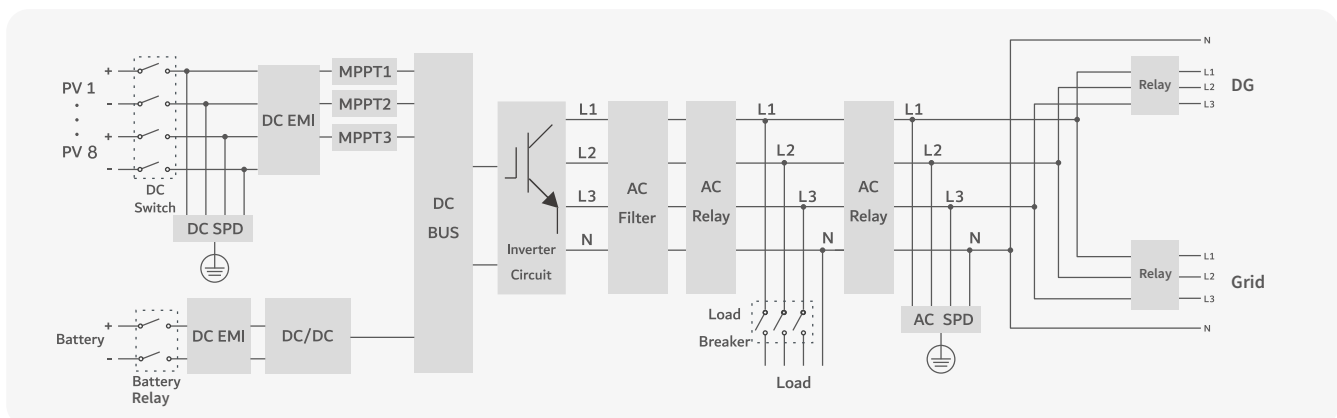
50kW three phase all-in-one hybrid inverter for small commercial use.

Features

-  All-in-one hybrid inverter
-  ATS function inbuilt
-  IP65 waterproof design
-  Seamless on/off grid transfer within 10 ms
-  Max. 10 units in parallel for on&off grid operation
-  Support remote control of DG
-  Programmable working mode
-  Multiple MPPT inputs



Block Diagram



HPS50000TL-US-208A

AC(on-grid)

Apparent power	62.5kVA
Rated power	50kW
Rated voltage	120/208V Wye
Rated current	138A
Voltage range	190-240V Wye/High-leg delta with split phase (Opt) (Derate below 208V 3P)
Rated frequency	50/60Hz
Frequency range	48-52/58-62Hz
THDI	<3%
PF	0.8 lagging-0.8 leading
AC connection	3L/N/PE
AC input	75kVA (Built-in ATS)

AC(off-grid)

Apparent power	50kVA
Rated power	50kW
Rated voltage	120/208V Wye
Rated current	138A
Voltage range	190-240V Wye/High-leg delta with split phase (Opt) (Derate below 208V 3P)
THDU	≤2%, linear
Rated frequency	50/60Hz
Overload capability	110%-10mins 120%-1min 130%-2S

DC(Battery and PV)

Max. PV Open-circuit voltage	650VDC
Max. PV power	75kWp
PV MPPT voltage range	125-550V
Number of MPPT	3
PV input/MPPT	2/3/3
PV input current/MPPT	40/60/60A
Max. PV input current	160A
Max. PV Isc/MPPT	60/90/90A
Battery voltage range	260-620V
Full load battery voltage range	500-620V
Max. charge/discharge power	50kW
Max. charge/discharge current	100A

General Information

Protection devices	PV DC switch, AFCI, battery breaker
Protection degree	Type 3R or IP65
Noise emission	< 65dB(A)@1m
Operating temperature	-25°C~+55°C
Cooling method	Forced-air
Relative humidity	0-95% non-condensing
Max. Altitude	2000m(derate over 2000m)
Dimension (W/H/D)	650/1155/300mm
Weight	110kg
Topology	Transformerless
Surge protection	DC Type II / AC Type III
Transfer between on/off grid	Automatic≤10ms
Standby consumption	< 20W
Warranty	10 Years

Communication

Display	Touch screen
Communication	RS485/CAN
Monitoring	WiFi of 4G module available