

Split-phase
Hybrid inverter
HI-14~20K-DL



-  Equipped with GEN port, compatible with diesel generators, smart loads, and AC coupling.
-  Color touch screen (4.3/7" optional).
-  Integrated O-export function.
-  Compatibility with lead-acid and Li-ion batteries, supports various brands of lithium batteries.
-  Supports PV array input up to 200% of rated inverter power.
-  Low startup voltage threshold, wide operating voltage range.

Technical Data	HI-14K-DL	HI-16K-DL	HI-18K-DL	HI-20K-DL
Input DC (PV side)				
Max. PV access power	35kW	37.5kW	45kW	50kW
Max. PV input power	28kW	32kW	36kW	40kW
Max. PV input voltage	600V			
Nominal input voltage	360V			
MPPT working voltage range	80V-500V			
Number of independent MPPT / strings per MPPT	4/2			
MPPT max. current	4*40A			
Start-up voltage	100V			
Output/Input AC (Grid side)				
Nominal apparent power	14kW	16kW	18kW	20kW
Max. apparent power	15.4kVA	17.6kVA	19.8kVA	22kVA
Nominal voltage	120V/240V			
Nominal frequency	60Hz			
Rated current	58.3A	66.6A	75A	83.3A
Max. current	64A	73A	82.5A	91.6A
Power factor	-0.8~+0.8(adjustable)			
THDi	<3%(Nominal Output)			
Grid system pattern	Split phase,2/3 phase, Single phase			
Max.AC current from utility grid	180A	180A	180A	180A
Output AC (Back-up)				
Nominal output apparent power	14kW	16kW	18kW	20kW
Max. output apparent power	15.4kVA	17.6kV	19.8kVA	22kVA
Nominal output voltage	120V/240V			
Nominal ouput frequency	60Hz			
Output THDV	<3%			
Automatic switch time	<10ms			
Battery Input Data				
Battery type	Li-Ion/Lead-acid			
Battery voltage range	40V-60V			
Max. charging/discharging current	280A	320A	360A	400A
Charging strategy for Li-Ion battery	Self-adaption to BMS			
Efficiency				
Max. efficiency	99.9%			
Europe efficiency	97.5%			
Max. battery to load efficiency	94.5%			
Protection				
Anti islanding protection	Yes			
Insulation impedance protection	Yes			
RCD detection	Yes			
PV reverse polarity protection	Yes			
Output over voltage protection	Yes			
Output over current protection	Yes			
General Data				
Dimensions(L/W /H)in mm	465/350/790			
Weight	60kg			
Operation temperature range	-25°C~+60°C			
Heat dissipation mode	Smart cooling			
NEMA Enclosure	Type 4			
Maximum altitude	4000m			
Self-Consumption night	<3w			
Topology	Transformerless			
Features				
LCD display	Yes			
Communication interface	WiFi/4G/USB/CAN/RS485			
Standards	UL 1741,IEEE 1547.1,SRD V2.0,FCC,RETIE,IEC 62109			