

# Hybrid Inverter

## QBH-7KS/7K6S/8KS48P

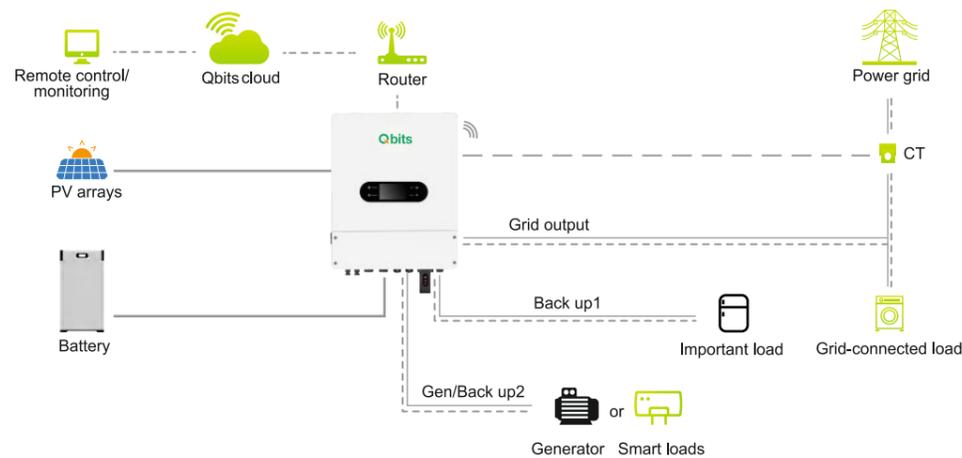
# QBH series

Single-phase



- Up-to-120A current of battery charge and discharge
- Off-grid peak power of twice of rated power within 15 seconds
- Switching as uninterruptible power supply within 10 seconds
- Supporting lead-acid batteries and lithium batteries and matching economical solutions for different markets

### Smart Energy Solutions



IS 15221(PART-2):2015/IEC 62109-2:2011  
IS 16189:2014/IEC 62116:2000



R -41270628  
www.bis.gov.in

### TECHNICAL DATA

Module Name	QBH-7KS48P	QBH-7K6S48P	QBH-8KS48P
<b>Battery Input Data</b>			
Battery Type	Lithium or lead acid battery		
Rated battery voltage	48V		
Maximum charging voltage	≤60 (Configurable)		
Maximum charge/discharge current	175A	190A	190A
<b>PV Input Data</b>			
Maximum DC input power	14000W	15200W	16000W
Maximum DC input voltage	500V		
MPPT Operating voltage range	150~450V		
Starting voltage	125V		
Maximum input current	30/18A	30/18A	30/18A
MPPT number	2	2	2
<b>AC Output Parameters(On-Grid)</b>			
Maximum output apparent power	7700W	8360W	8800W
Rated output voltage	220/230V		
Rated output frequency	50/60Hz		
Max output current	35A	38A	40A
Output power factor	~1 (-0.8 leading~+0.8 lagging)		
<b>AC Output Parameters(Off-Grid)</b>			
Rated output apparent power	7700W	7600W	8000W
Maximum output apparent power	>200%, 15sec		
Rated output voltage	220/230V		
Rated output frequency	50/60Hz		
Max output current	35A	38A	40A
<b>Efficiency</b>			
Max efficiency	98%		
Max efficiency	94.5%		
Europe efficiency	97.5%		
<b>Protection</b>			
PV input reverse polarity protection	Yes		
PV insulation resistance detection	Yes		
Residual current detection	Yes		
Output over current protection	Yes		
Output short circuit protection	Yes		
Output over voltage protection	Yes		
<b>Basic Data</b>			
Operation temperature	-25°C~60°C (frequency-decreasing above 45°C)		
Storage temperature	-30~65°C		
Relative humidity	0~95%		
Working altitude	≤4000m (frequency-decreasing above 2000m)		
Cooling	Intelligent forced air cooling		
Noise	<55db		
Weight	21.5kg		
Dimensions (W*H*D)	198*427*554mm		
Protection class	IP66		
Topology	HF isolation (Battery side)		
<b>Standard</b>			
Safety standard/EMC standard	NB/T32004-2018, IEC62109, IEC61000, IS16169 & IS16221(BIS)		
Grid-connected standard	IEC61727, EN50549-1, VDE-4105, NRS-097-2-1, OVE-Richtlinie R25, UNE217001/2, Ordinance No.140		
Other standard	IEC61683, IEC62116, EN50530, IEC60068		