Qbits Inverter

POWER YOUR
BRIGHTER FUTURE





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Factory Address
Plot No. 64 To 65, Sandhya Industries,Sayan,
Olpad, Surat, Gujarat

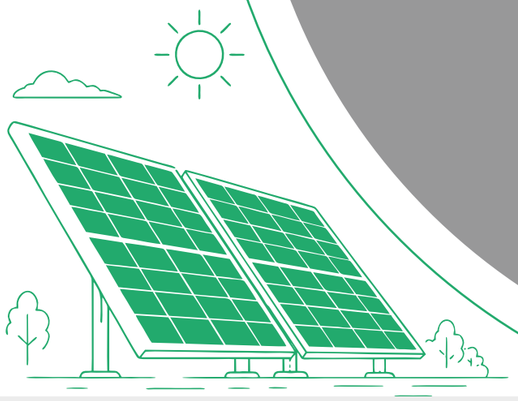
Qbits Inverter

INDIA'S FIRST

AI-POWERED SOLAR INVERTER

Empowering Every Home
with Smarter Energy.





On-site Service Across India
On-site within 24 hours

12 Years Warranty
8 + 4 Years Warranty

IP-66 Weather Proof
Rain, Dust & Wind Proof

Contact :- +91 99791 92935 www.qbitsenergy.com support@qbitsenergy.com info@qbitsenergy.com

2100+
Authorised Service Partner

25+
State Presence

130+
Channel Partners



Qbits

ABOUT US

Qbits Energy (India) Pvt. Ltd. is a Surat-based solar inverter and BESS manufacturing company, offering a complete range of on-grid inverters, hybrid inverters, and battery storage solutions. Our core focus is on product innovation and R&D, with every Qbits product engineered to withstand the demands of Indian weather and electrical grid conditions from extreme heat and dust to voltage fluctuations.

Customer satisfaction is our top priority, backed by a strong service partner network spanning across India. With intelligent design, rigorous quality standards, and dependable after-sales support, Qbits is committed to powering India's shift toward smarter, more reliable solar energy.

OUR JOURNEY

8 Years of Building Trust.

Growing stronger with every milestone, driven by innovation, built on trust and committed to creating lasting value for our customers and partners.

2017
A Vision Begins
The foundation of a future-focused solar company.

2020
Learning from the Market
Started as a dealer to understand customer needs from the ground up.

2021
The Gap Became Clear
Recognized the need for dependable, high-performance inverters.

2022
Engineering the Difference
Invested in R&D to create a product the industry could truly rely on.

2024
25,000+ Installations, One Promise
Delivering reliability, one inverter at a time.

2025
The Birth of Qbits
Launched our own inverter brand and secured BIS Certification.

2026
Growing with Trust
100+ channel partners joined the Qbits family, strengthening our presence across India.

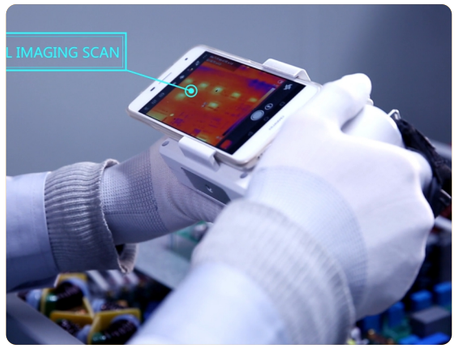
50,000+
SOLAR INVERTERS INSTALLED

Qbits

25+
States Covered



Fully Automated Production Facility

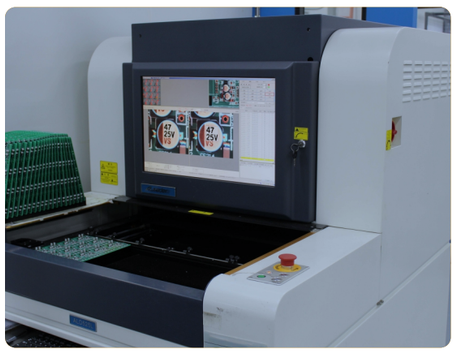






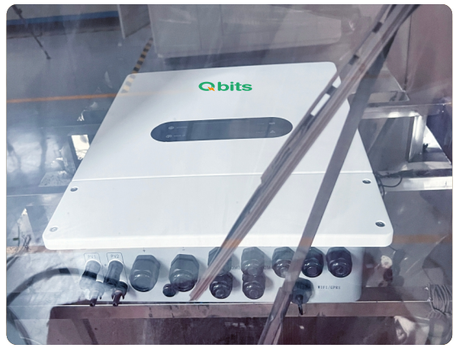






Qbits boasts with whole production lines, from the most original SMT circuit board production to the final high temperature aging test. Its full series of automatic production equipment and refined management of whole process inspection make it achieve international leading technical level.

Qbits

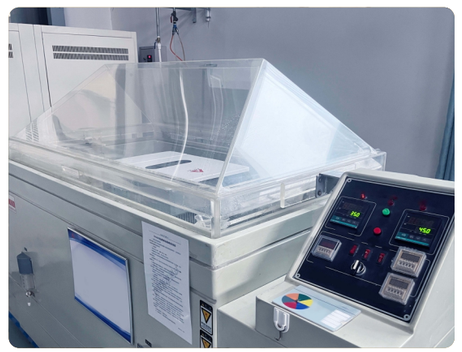


1000+ tests

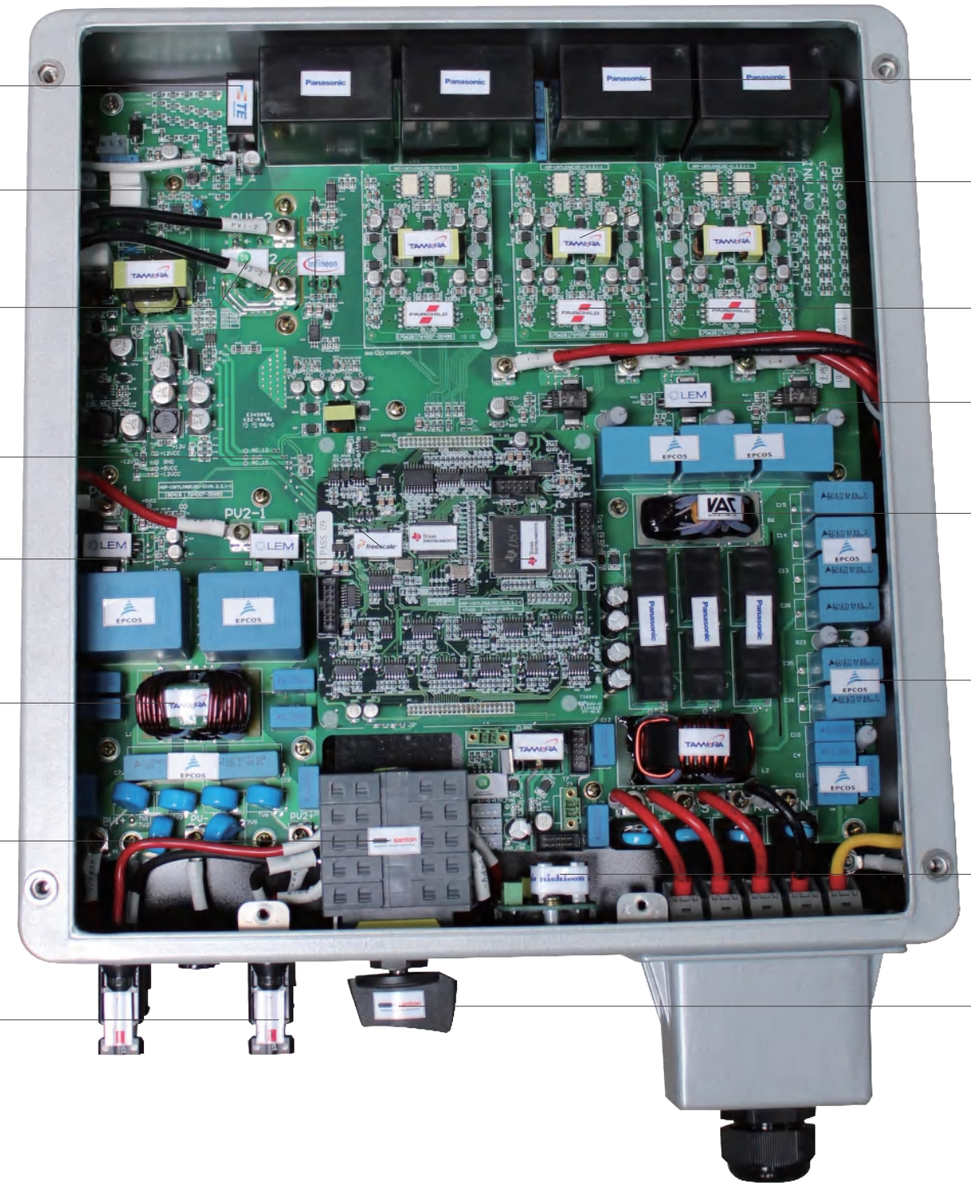
A 1000+ test on an inverter refers to testing its performance and efficiency with a load exceeding 1000 watts.It helps assess the inverter's ability to power multiple appliances or devices simultaneously.







Our BOM, Our Quality



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ON 安森美半导体 ON Semiconductor
freescale
Texas Instruments
TAMURA
santon superior switch solutions
Multi-Contact MC STÄUBLI GROUP

Panasonic
TAMURA
FAIRCHILD
LEM
VAC VACUUMSCHMELZE
EPCOS
nichicon
santon superior switch solutions

Heart of Inverter !

On-grid inverter

QB -1.5/2.0/2.7/3.0/3.3/3.6/4.0KTLS

TLS series

single-phase & single-MPPT



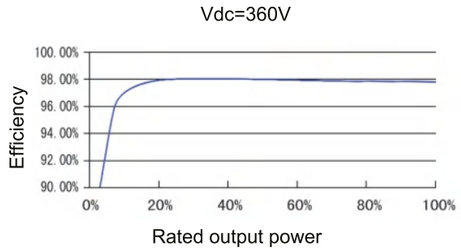
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EFFICIENCY CURVE



IS 16221 (PART 2):2015/IEC 62109-2 :2011
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TECHNICAL DATA

Model Name	QB-1.5KTLS	QB-2.0KTLS	QB-2.7KTLS	QB-3.0KTLS	QB-3.3KTLS	QB-3.6KTLS	QB-4.0KTLS
Input							
Max. DC input power	3000W	4000W	5400W	6000W	6600W	7200W	8000W
Max. DC input voltage	550V						
Max. DC input current	20A						
MPPT voltage range	40-550V						
Recommended MPPT operating voltage	360V						
Starting voltage	50V						
No.Of MPPT	1						
Max. no. of strings per MPPT	1						
Output							
Rated output power	1500W	2000W	2700W	3000W	3300W	3600W	4000W
Max. output power	1650VA	2200VA	2970VA	3300VA	3630VA	3960VA	4400VA
Max. output current	7.5A	10A	13.5A	15A	15A	16.5A	18.5A
Rated grid voltage	220/230/240V						
Grid voltage range	90-290Vac						
Rated grid frequency	50Hz/60Hz						
Grid frequency range	45-55Hz/55-65Hz						
THD	＜3% (Under rated power)						
Power factor	＞0.99 (Under rated power) / Adjustable range: 0.8 leading-0.8 lagging						
DC current injection	＜0.5% (Under rated power)						
System Data							
Max. efficiency	98.00%						
Euro. efficiency	97.00%						
Humidity range	0-100% non-condensing						
Cooling type	Natural cooling						
Temperature range	-25~+60°C						
Power consumption at night	＜1W						
Max. working altitude	4000m						
Display	LED(optional: LCD)						
Communication interface	WIFI(optional: RS485 or GPRS)						
Protection							
DC reverse-polarity protection	YES						
Short circuit protection	YES						
Output over current protection	YES						
Output over voltage protection	YES						
Insulation resistance monitoring	YES						
Residual current detection	YES						
Surge protection	YES						
Grid monitoring	YES						
Islanding protection	YES						
Temperature protection	YES						
Integrated DC switch	Optional						
Mechanical Data							
Dimensions (W*H*D)	295*210*120mm						
Weight	5.5kg						
Protection class	IP66						
Standard							
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, Ordinace No.140						
Other standard	IEC61683, IEC62116, EN50530, IEC60068						

On-grid inverter

QB-4.2/4.6/5/5.4/6KTLS

TLS series

single-phase & single-MPPT



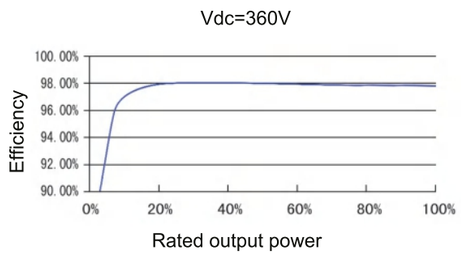
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TECHNICAL DATA

Model Name	QB- 4.2KTLS	QB- 4.6KTLS	QB-5KTLS	QB-5.4KTLS	QB-6KTLS
Input					
Max. DC input power	6300W	6900W	7500W	8100W	9000W
Max. DC input voltage	600V				
Max. DC input current	20A				
MPPT voltage range	40-600V				
Recommended	360 V				
Starting voltage MPP	50V				
No.Of MPPT	1				
Max. no. of strings per MPPT	1				
Output					
Rated output power	4200W	4600W	5000W	5000W	6000W
Max. output power	4.62kVA	5.06kVA	5.5 kVA	5.94kVA	6.6 kVA
Max. output current	21A	23A	25A	27A	27.3A
Rated grid voltage	220/230/240V				
Grid voltage range	90-290 Vac (adjustable)				
Rated grid frequency	50Hz/60Hz				
Grid frequency range	45~55Hz/55~65Hz				
THD	<3% (Under the rated power)				
Power factor	>0.99 (Under the rated power) /Adjustable range: 0.8 leading~0.8 lagging				
DC current injection	<0.5% (Under the rated power)				
System Data					
Max. efficiency	98.0%	98.0%	98.1%	98.1%	98.1%
Euro. efficiency	97.4%	97.4%	97.5%	97.5%	97.5%
Humidity range	0-100% non-condensing				
Cooling type	Natural cooling				
Temperature range	-25~+60°C				
Power consumption at night	< 1W				
Max. working altitude	4000m				
Display	LED(optional: LCD)				
Communication interface	WIFI(optional: RS485 or GPRS)				
Protection					
DC reverse-polarity protection	Yes				
Short circuit protection	Yes				
Output over current protection	Yes				
Output over voltage protection	Yes				
Insulation resistance monitoring	Yes				
Residual current detection	Yes				
Surge protection	Yes				
Grid monitoring	Yes				
Islanding protection	Yes				
Temperature protection	Yes				
Integrated DC switch	Yes				
Mechanical Data					
Dimensions (W*H*D)	347*368*167mm				
Weight	9kg				
Protection class	IP66				
Standard					
Safety standard/EMC standard	NB/T32004-2018, IEC62109, IEC61000, IS16169 & IS16221(BIS)				
Grid-connected standard	C61727, EN50549-1, VDE-4105, NRS-097-2-1, OVE-Richtlinie R25, UNE217001/2, Ordinace No.140				
Other standard	IEC61683, IEC62116, EN50530, IEC60068				

On-grid Inverter

QB -4/5/6 KTLD

TLD series

single-phase & dual-MPPT



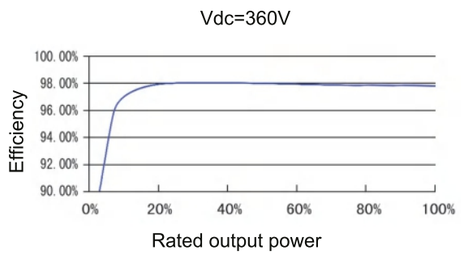
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TECHNICAL DATA

Model Name	QB-4KTLD	QB-5KTLD	QB-6KTLD
Input			
Max. DC input power	6000W	7500W	9000W
Max. DC input voltage		550V	
Max. DC input current	20/20A	20/20A	20/20A
MPPT voltage range		80-550V	
Recommended MPPT operating voltage		360V	
Starting voltage		50V	
No.Of MPPT		2	
Max. no. of strings per MPPT		1/1	
Output			
Rated output power	4000W	5000W	6000W
Max. output power	4.4 kVA	5.5 kVA	6.6 kVA
Max. output current	20A	25A	27.3A
Rated grid voltage		230V	
Grid voltage range		160~270Vac (adjustable)	
Rated grid frequency		50Hz/60Hz	
Grid frequency range		45~55Hz/55~65Hz	
THD		<2% (Under the rated power)	
Power factor		>0.99 (Under the rated power) /Adjustable range: 0.8 leading~0.8 lagging	
DC current injection		<0.5% (Under the rated power)	
System Data			
Max. efficiency	98.1%	98.1%	98.1%
Euro. efficiency	97.5%	97.5%	97.5%
Humidity range		0-100% non-condensing	
Cooling type		Natural cooling	
Temperature range		-25~+60°C	
Power consumption at night		< 1W	
Max. working altitude		4000m	
Display		LED(optional: LCD)	
Communication interface		WIFI(optional: RS485 or GPRS)	
Protection			
DC reverse-polarity protection		Yes	
Short circuit protection		Yes	
Output over current protection		Yes	
Output over voltage protection		Yes	
Insulation resistance monitoring		Yes	
Residual current detection		Yes	
Surge protection		Yes	
Grid monitoring		Yes	
Islanding protection		Yes	
Temperature protection		Yes	
Integrated DC switch		Yes	
Mechanical Data			
Dimensions (W*H*D)		347*368*167mm	
Weight		10kg	
Protection class		IP66	
Standard			
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, Ordinace No.140	
Other standard		IEC61683, IEC62116, EN50530, IEC60068	

On-grid Inverter

QB-5/6/8/10/12/15/17KTLC

TLC series

Three-phase & dual-MPPT



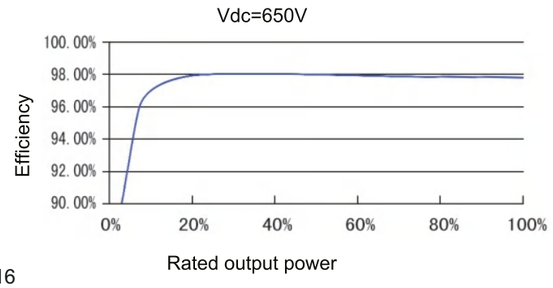
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TECHNICAL DATA

Model Name	QB-5KTLC	QB-6KTLC	QB-8KTLC	QB-10KTLC	QB-12KTLC	QB-15KTLC	QB-17KTLC
Input							
Max. DC input power	7500W	9000W	12000W	15000W	18000W	22500W	25500W
Max. DC input voltage	1100V						
Max. DC input current	20/20A					20/30A	
MPPT voltage range	180-1000V						
Recommended MPPT operating voltage	650V						
Starting voltage	180V						
No.Of MPPT	2					2	
Max. no. of strings per MPPT	1/1					1/2	
Output							
Rated output power	5000W	6000W	8000W	10000W	12000W	15000W	17000W
Max. output power	5.5 kVA	6.6kVA	8.8 kVA	11kVA	13.2kVA	16.5kVA	18.7kVA
Max. output current	8.5A	10A	13.3A	16.7A	20A	24A	28.3A
Rated grid voltage	400V						
Grid voltage range	310-480Vac						
Rated grid frequency	50Hz/60Hz						
Grid frequency range	45~55Hz/55~65Hz						
THD	<2% (Under the rated power)						
Power factor	>0.99 (Under the rated power) / Adjustable range: 0.8 leading~0.8 lagging						
DC current injection	<0.5% (Under the rated power)						
System Data							
Max. efficiency	98.5%	98.5%	98.5%	98.6%	98.7%	98.7%	98.7%
Euro. efficiency	98.5%	98%	98%	98.2%	98.1%	98.2%	98.2%
Humidity range	0~100%, non-condensing						
Cooling type	Intelligent forced air cooling						
Temperature range	-25~60°C						
Power consumption at night	<1W						
Max. working altitude	4000m						
Display	LED(optional: LCD)						
Communication interface	WIFI(optional: RS485 or GPRS)						
Protection							
DC reverse-polarity protection	Yes						
Short circuit protection	Yes						
Output over current protection	Yes						
Output over voltage protection	Yes						
Insulation resistance monitoring	Yes						
Residual current detection	Yes						
Surge protection	Yes						
Grid monitoring	Yes						
Islanding protection	Yes						
Temperature protection	Yes						
Integrated DC switch	Yes						
Mechanical Data							
Dimensions (W*H*D)	427*450*204mm						
Weight	15kg						
Protection class	IP66						
Standard							
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, Ordinace No.140						
Other standard	IEC61683, IEC62116, EN50530, IEC60068						

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On-grid Inverter

QB -20/23/25/28/30KTLC

TLC series

Three-phase & dual-MPPT



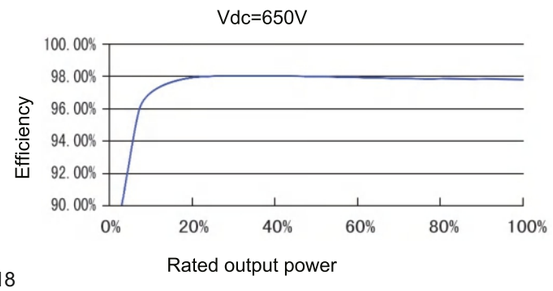
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TECHNICAL DATA

Model Name	QB-20KTLC	QB-23KTLC	QB-25KTLC	QB- 28KTLC	QB-30KTLC
Input					
Max. DC input power	30000W	34500W	37500W	42000W	45000W
Max. DC input voltage	1100V				
Max. DC input current	30/30A		40/30A	40/40A	40/40A
MPPT voltage range	180-1000V				
Recommended MPPT operating voltage	650V				
Starting voltage	180V				
No.Of MPPT	2				
Max. no. of strings per MPPT	2/2				
Output					
Rated output power	20000W	23000W	25000W	28000W	30000W
Max. output power	22kVA	25.3kVA	27.5kVA	30.8kVA	33kVA
Max. output current	32A	36.5A	41A	45A	48A
Rated grid voltage	400V				
Grid voltage range	310-480Vac				
Rated grid frequency	50Hz/60Hz				
Grid frequency range	45~55Hz/55~65Hz				
THD	<2% (Under the rated power)				
Power factor	>0.99 (Under the rated power) / Adjustable range: 0.8 leading~0.8 lagging				
DC current injection	<0.5% (Under the rated power)				
System Data					
Max. efficiency	98.8%				
Euro. efficiency	98.2%				
Humidity range	0~100%, non-condensing				
Cooling type	Intelligent forced air cooling				
Temperature range	-25~+60°C				
Power consumption at night	<1W				
Max. working altitude	4000m				
Display	LED(optional: LCD)				
Communication interface	WIFI(optional: RS485 or GPRS)				
Protection					
DC reverse-polarity protection	Yes				
Short circuit protection	Yes				
Output over current protection	Yes				
Output over voltage protection	Yes				
Insulation resistance monitoring	Yes				
Residual current detection	Yes				
Surge protection	Yes				
Grid monitoring	Yes				
Islanding protection	Yes				
Temperature protection	Yes				
Integrated DC switch	Yes				
Mechanical Data					
Dimensions (W*H*D)	427*450*204mm				
Weight	18kg				
Protection class	IP66				
Standard					
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, Ordinace No.140				
Other standard	IEC61683, IEC62116, EN50530, IEC60068				

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On-grid Inverter

QB - 33/36/40KTLC

Pro series

Three-phase & multi-MPPT



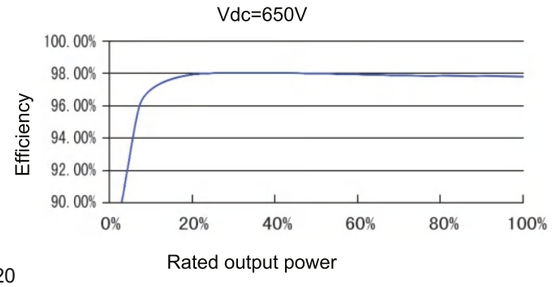
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IS 16169: 2019/IEC 62116: 2014
IS16221 (Part 2) : 2015 / IEC 62109-2 : 2011
IS 17980: 2022/ IEC 62891:2020

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TECHNICAL DATA

Model Name	QB-33KTLC	QB-36KTLC	QB-40KTLC
Input			
Max. DC input power	49500W	54000W	60000W
Max. DC input voltage	1100V		
Max. DC input current	40/40/20A		
MPPT voltage range	200-1000Vdc		
Recommended MPPT operating voltage	650V		
Starting voltage	180V		
No.Of MPPT	3		
Max. no. of strings per MPPT	2		
Output			
Rated output power	33000W	36000W	40000W
Max. output power	36.3kVA	39.6kVA	44kVA
Max. output current	53A	56A	66A
Rated grid voltage	400Vac		
Grid voltage range	310~480Vac		
Rated grid frequency	50Hz/60Hz		
Grid frequency range	45~55Hz/55~65Hz		
THD	< 2% (Under the rated power)		
Power factor	>0.99 (Under rated power) / Adjustable range: 0.8 leading-0.8 lagging		
DC current injection	< 0.5% (Under the rated power)		
System Data			
Max. efficiency	98.60%	98.60%	98.70%
Euro. efficiency	98.10%	98.10%	98.10%
Humidity range	0-100% non-condensing		
Cooling type	Intelligent forced air cooling		
Temperature range	-25~+60℃		
Power consumption at night	< 1W		
Max. working altitude	4000m		
Display	LED(optional: LCD)		
Communication interface	WIFI(optional: RS485 or GPRS)		
Protection			
DC reverse-polarity protection	Yes		
Short circuit protection	Yes		
Output over current protection	Yes		
Output over voltage protection	Yes		
Insulation resistance monitoring	Yes		
Residual current detection	Yes		
Surge protection	Yes		
Grid monitoring	Yes		
Islanding protection	Yes		
Temperature protection	Yes		
Integrated DC switch	Yes		
Mechanical Data			
Dimensions (W*H*D)	460*476*228.5mm		
Weight	23kg		
Protection class	IP66		
Standard			
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, Ordinace No.140		
Other standard	IEC61683, IEC62116, EN50530, IEC60068		

On-grid Inverter

QB - 45/50KTLC

PLUS series

Three-phase & multi-MPPT



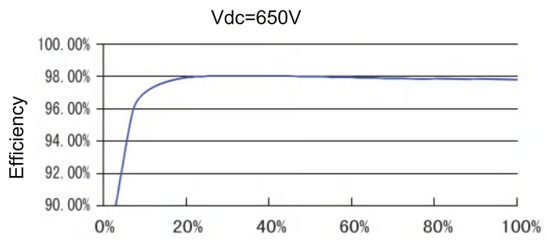
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EFFICIENCY CURVE



IS 16169: 2019/IEC 62116: 2014
IS16221 (Part 2) : 2015 / IEC 62109-2 : 2011
IS 17980: 2022/ IEC 62891:2020

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TECHNICAL DATA

Model Name	QB- 45KTLC	QB-50KTLC
Input		
Max. DC input power	67500W	75000W
Max. DC input voltage	1100V	
Max. DC input current	40/40/20/20A	
MPPT voltage range	200-1000V	
Recommended MPPT operating voltage	650V	
Starting voltage	180V	
No.Of MPPT	4	
Max. no. of strings per MPPT	2	
Output		
Rated output power	45000W	50000W
Max. output power	49.5kVA	55kVA
Max. output current	72A	80A
Rated grid voltage	400Vac	
Grid voltage range	310-480Vac	
Rated grid frequency	50Hz/60Hz	
Grid frequency range	45-55Hz/55-65Hz	
THD	＜2% (Under rated power)	
Power factor	＞0.99 (Under rated power) / Adjustable range: 0.8 leading-0.8 lagging	
DC current injection	＜0.5% (Under rated power)	
System Data		
Max. efficiency	98.60%	98.70%
Euro. efficiency	98.20%	98.20%
Humidity range	0-100% non-condensing	
Cooling type	Intelligent forced air cooling	
Temperature range	-25~+60°C	
Power consumption at night	＜1W	
Max. working altitude	4000m	
Display	LED(optional: LCD)	
Communication interface	WIFI(optional: RS485 or GPRS)	
Protection		
DC reverse-polarity protection	Yes	
Short circuit protection	Yes	
Output over current protection	Yes	
Output over voltage protection	Yes	
Insulation resistance monitoring	Yes	
Residual current detection	Yes	
Surge protection	Yes	
Grid monitoring	Yes	
Islanding protection	Yes	
Temperature protection	Yes	
Integrated DC switch	Yes	
Mechanical Data		
Dimensions (W*H*D)	610*564*218mm	
Weight	37kg	
Protection class	IP66	
Standard		
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, Ordinace No.140	
Other standard	IEC61683, IEC62116, EN50530, IEC60068	

On-grid inverter

QB - 80/90/100/110/125 KTLC

Pro series

Three-phase & multi-MPPT



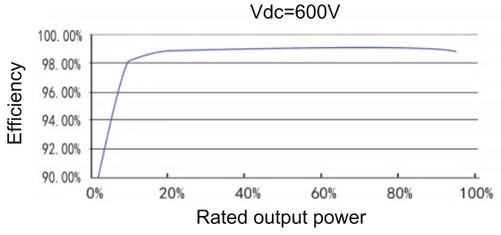
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TECHNICAL DATA

Model Name	QB-80KTLC	QB-90KTLC	QB-100KTLC	QB-110KTLC	QB-125KTLC
Input					
Max. DC input power	120kW	135kW	150kW	165kW	187.5kW
Max. DC input voltage	1100V				
Max. DC input current	30A*8	30A*9	30A*10	30A*10	30A*10
MPPT voltage range	200-1000V				
Recommended MPPT operating voltage	600V				
Starting voltage	180V				
No.Of MPPT	8	9	10	8	10
Max. no. of strings per MPPT	2				
Output					
Rated output power	80kW	90kW	100KW	110kW	125kW
Max. output power	88kW	99kW	110KW	121kW	137.5kVA
Max. output current	127A	142.9A	158.8A	174.6A	199.3A
Rated grid voltage	400V				
Grid voltage range	310-480Vac				
Rated grid frequency	50Hz/60Hz				
Grid frequency range	45-55Hz/55-65Hz				
THD	＜2% (Under rated power)				
Power factor	＞0.99 (Under rated power) / Adjustable range: 0.8 leading-0.8 lagging				
DC current injection	＜0.5% (Under rated power)				
System Data					
Max. efficiency	98.60%	98.60%	98.70%	98.7%	98.9%
Euro. efficiency	98.10%	98.10%	98.10%	98.1%	98.2%
Humidity range	% non-condensing				
Cooling type	Intelligent forced air cooling				
Temperature range	-25~+60°C				
Power consumption at night	＜1W				
Max. working altitude	4000m				
Display	LED(optional: LCD)				
Communication interface	WIFI(optional: RS485 or GPRS)				
Protection					
DC reverse-polarity protection	Yes				
Short circuit protection	Yes				
Output over current protection	Yes				
Output over voltage protection	Yes				
Insulation resistance monitoring	Yes				
Residual current detection	Yes				
Surge protection	Yes				
Grid monitoring	Yes				
Islanding protection	Yes				
Temperature protection	Yes				
Integrated DC switch	Yes				
Mechanical Data					
Dimensions (W*H*D)	1160*611*286mm				
Weight	92kg				
Protection class	IP66				
Standard					
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, Ordinace No.140				
Other standard	IEC61683, IEC62116, EN50530, IEC60068				

Hybrid Inverter

QBH -3KS/3K6S/4KS/4K6S/5KS/6KS48P

QBH series

Single-phase



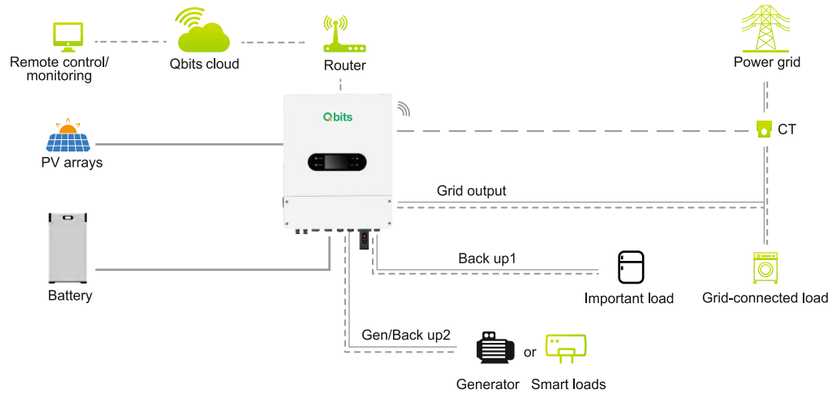
Up-to-120A current of battery charge and discharge

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



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TECHNICAL DATA

Modle Name	QBH-3KS48P	QBH-3K6S48P	QBH-4KS48P	QBH-4K6S48P	QBH-5KS48P	QBH-6KS48P
Battery Input Data						
Battery Type	Lithium or lead acid battery					
Rated battery voltage	48V					
Maximum charging voltage	≤60 (Configurable)					
Maximum charge/discharge current	75A	90A	100A	110A	120A	120A
PV Input Data						
Maximum DC input power	6kW	7.2kW	8kW	9.2kW	10kW	12kW
Maximum DC input voltage	500V					
MPPT Operating voltage range	150~450V					
Starting voltage	125V					
Maximum input current	18A	18/18A	18/18A	18/18A	18/18A	18/18A
MPPT number	1	2	2	2	2	2
AC Output Parameters(On-Grid)						
Maximum output apparent power	3300W	3960W	4400W	5000W	5500W	6000W
Rated output voltage	220/230V					
Rated output frequency	50/60Hz					
Max output current	15A	18A	20A	22A	25A	27A
Output power factor	1 (-0.8 leading~+0.8 lagging)					
AC Output Parameters(Off-Grid)						
Rated output apparent power	3000W	3600W	4000W	4600W	5000W	6000W
Maximum output apparent power	>200%,15sec					
Rated output voltage	230V					
Rated output frequency	50/60Hz					
Max output current	14A	16A	18A	21A	23A	27A
Efficiency						
Max efficiency	97.6%					
Max efficiency	94.5%					
Europe efficiency	97%					
Protection						
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					
Basic Data						
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	Natural cooling					
Noise	<55db					
Weight	20kg					
Dimensions (W*H*D)	198*427*554mm					
Protection class	IP66					
Topology	HF isolation (Battery side)					
Standard						
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, Ordinace No.140					
Other standard	IEC61683, IEC62116, EN50530, IEC60068					

Hybrid Inverter

QBH-7KS/7K6S/8KS48P

QBH series

Single-phase



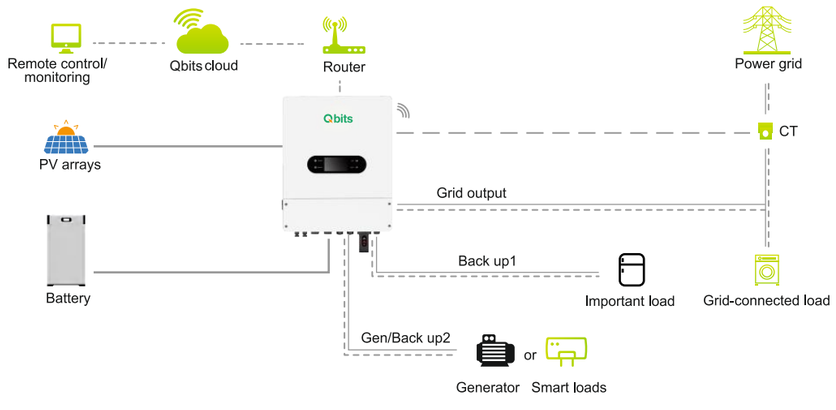
Up-to-120A current of battery charge and discharge

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

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TECHNICAL DATA

Modle Name	QBH-7KS48P	QBH-7K6S48P	QBH-8KS48P
Battery Input Data			
Battery Type	Lithium or lead acid battery		
Rated battery voltage	48V		
Maximum charging voltage	≤60 (Configurable)		
Maximum charge/discharge current	175A	190A	190A
PV Input Data			
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
AC Output Parameters(On-Grid)			
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)		
AC Output Parameters(Off-Grid)			
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
Efficiency			
Max efficiency	98%		
Max efficiency	94.5%		
Europe efficiency	97.5%		
Protection			
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		
Basic Data			
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)		
Standard			
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, Ordinace No.140		
Other standard	IEC61683, IEC62116, EN50530, IEC60068		

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Hybrid Inverter

QBH-5/6/7/8/10/12KS48P3

QBH series

Three-phase



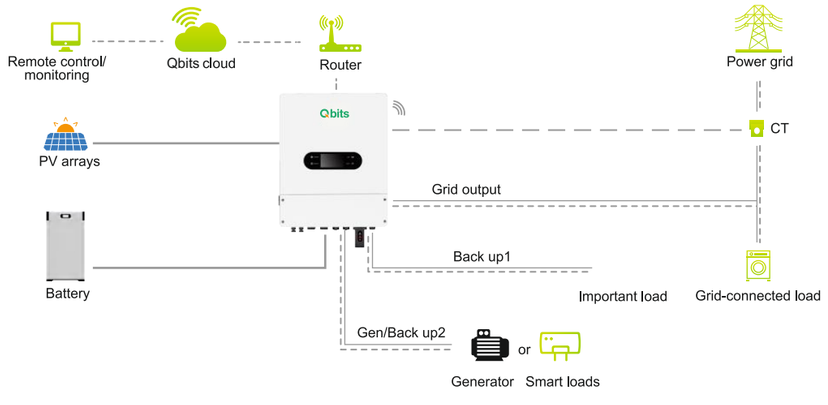
Up-to-36A maximum input current

Off-grid peak power of 200% overload within 15 seconds

Adaptable to 18A modules and able to match mainstream highcurrent modules in the market

200% of photovoltaic over-proportion ratio for connectin g more modules to ensure off-grid applications and fully charge battery;

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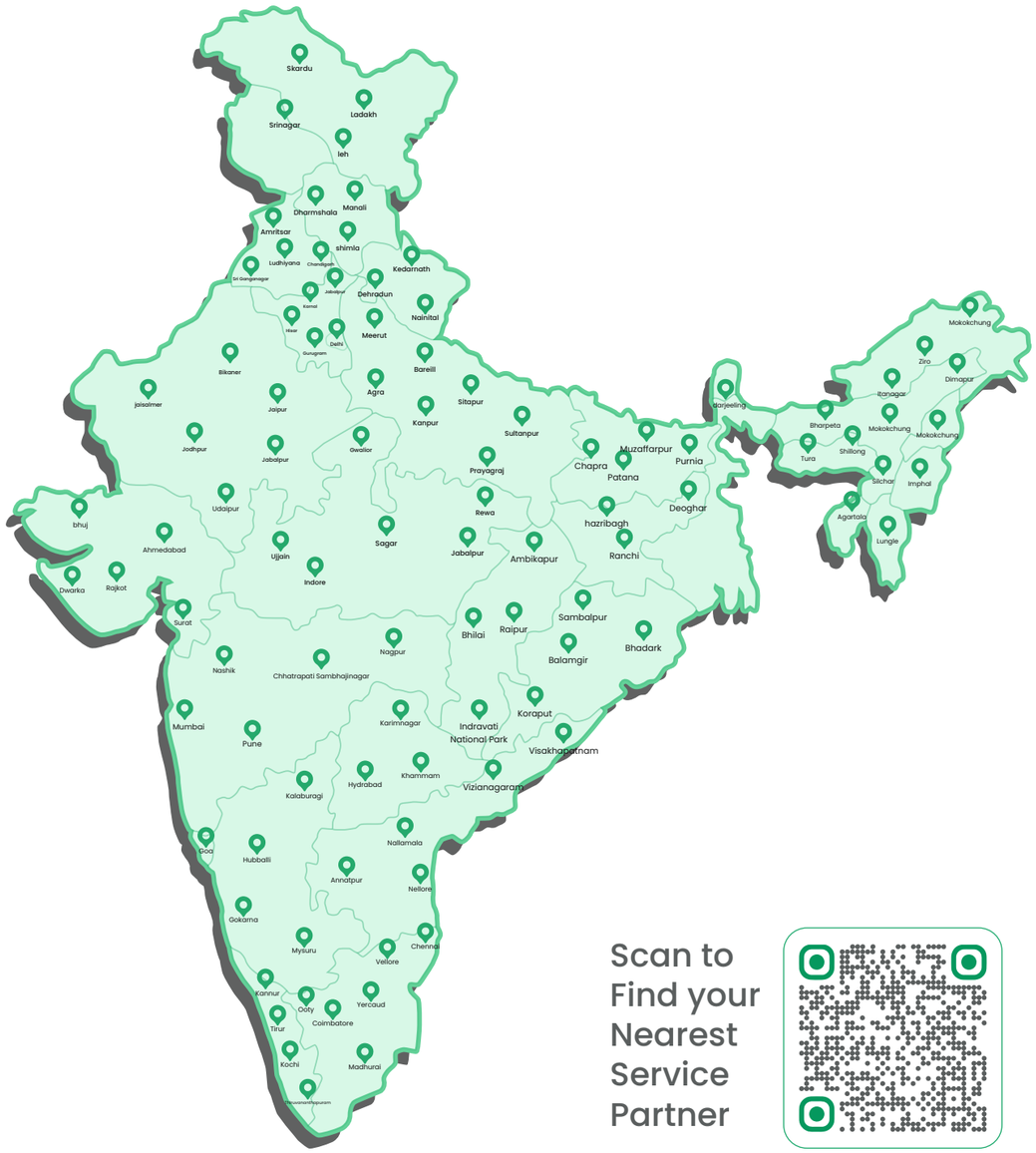
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TECHNICAL DATA

Modle Name	QBH-5KS48P3	QBH-6KS48P3	QBH-7KS48P3	QBH-8KS48P3	QBH-10KS48P3	QBH-12KS48P3
Battery Input Data						
Battery Type	Lithium or lead acid battery					
Rated battery voltage	48V					
Maximum charging voltage	≤60 (Configurable)					
Maximum charge/discharge current	120A	125A	150A	190A	210A	250A
PV Input Data						
Maximum DC input power	10000W	12000W	14000W	16000W	20000W	24000W
Maximum DC input voltage	1000V					
MPPT Operating voltage range	200~800V					
Starting voltage	150V					
Maximum input current	18A	18A	18A	18/18A	36/18A	36/18A
MPPT number	1	1	1	2	2	2
AC Output Parameters(On-Grid)						
Maximum output apparent power	5500W	6600W	7700W	8800W	11000W	13200W
Rated output voltage	380/400V					
Rated output frequency	50/60Hz					
Max output current	8.3A	10A	11.6A	13.3A	16.7A	20A
Output power factor	1 (-0.8 leading~+0.8 lagging)					
AC Output Parameters(Off-Grid)						
Rated output apparent power	5500W	6600W	7700W	8000W	10000W	12000W
Maximum output apparent power	>200%,15sec					
Rated output voltage	380/400V					
Rated output frequency	50/60Hz					
Max output current	8.3A	10A	11.6A	13.3A	16.7A	20A
Efficiency						
Max efficiency	98%					
Max efficiency	94.5%					
Europe efficiency	97.5%					
Protection						
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					
Basic Data						
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	38kg					
Dimensions (W*H*D)	475*683*256mm					
Protection class	IP66					
Topology	HF isolation(Battery side)					
Standard						
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, Ordinace No.140					
Other standard	IEC61683, IEC62116, EN50530, IEC60068					

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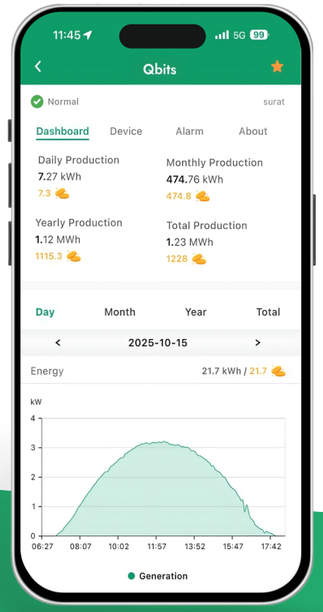
Certified technicians for safe and efficient inverter installation.

Technical Training

Product training for dealers and installers across India.



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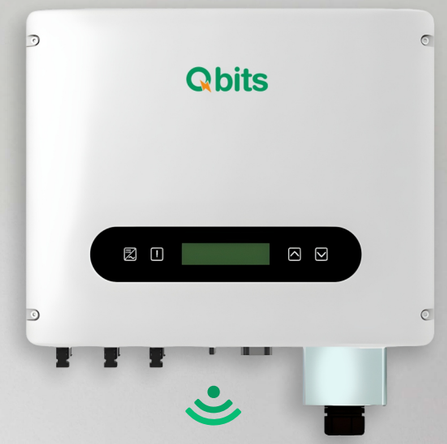
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