

INVERTERS

WIT 63-125K-XHU

Hybrid inverter · Three-phase · 63 – 125 kW · 10 models


63 – 125 kW

RATED POWER

Three-phase

PHASE

10

MPPT TRACKERS

98.5 %

MAX. EFFICIENCY

Parameter	Unit	Common to all models
PV input		
Max. PV input voltage	V	1000
MPPT voltage range	V	180 – 1000
Start-up voltage	V	195
Max. input current per MPPT	A	42
Max. short-circuit current per MPPT	A	50
Number of MPPT trackers		10
PV strings per MPPT		2
AC output		
Rated AC voltage	V	400
Phase		Three-phase
Rated AC frequency	Hz	50/60
Power factor		-1 to +1 (adjustable)
Total harmonic distortion (THDi)	%	<3
Generator input		Yes
Max. parallel units		10
Nominal AC voltage and range (grid)		380/400/415 V, -15% to +10%
AC grid connection type		3P3W+PE / 3P4W+PE
Nominal AC grid frequency range (50 Hz / 60 Hz)	Hz	45-55 / 55-65
AC/GEN input: Max. input current	A	250
Backup: Nominal AC voltage		220/230/240 V (L-N); 380/400/415 V (L-L)
Backup: Nominal AC output frequency	Hz	50/60
Backup: Load connection		3P3W+PE / 3P4W+PE
Backup: THDv (linear load)	%	<3
Backup: Load unbalance		100% three-phase unbalanced
Backup: Overload capability		<=110%: continuous; 160%: 10 s
Backup: On/off-grid transfer time		<=10 ms

Parameter	Unit	Common to all models
Battery		
Battery voltage range	V	180 – 1000
Max. charge current	A	200
Max. discharge current	A	200
Battery voltage derating		Derating above 900 V
BMS communication		RS485 / CAN
Efficiency		
Max. efficiency	%	98.5
Protection		
Protection functions		DC reverse polarity protection; Battery reverse protection; AC/DC surge protection (Type II); Insulation resistance monitoring; Ground fault monitoring; Grid monitoring; Residual-current monitoring unit; AC short-circuit protection; Strings monitoring; Anti-islanding protection; PID protection; AFCI function
General data		
Weight	kg	160
Ingress protection (IP rating)		IP66
Operating temperature range	°C	–30 – 60
Relative humidity	%	0 – 100
Max. operating altitude	m	4000
Cooling		Smart air cooling
Topology		Transformerless
Warranty	years	5 – 10
Max. DC/AC ratio		2.0
UPS function (built-in)		Yes
Black start function		Yes
Smart load function		Yes
Communication		
Display		OLED + LED; Wi-Fi + app
Communication interfaces		RS485; CAN; Wi-Fi (optional); 4G (optional); LAN (optional)

Parameter	Unit	WIT 63K-XHU	WIT 75K-XHU	WIT 85K-XHU	WIT 100K-XHU	WIT 125K-XHU
PV input						
Max. PV input power	W	126000	150000	170000	200000	250000
AC output						
Rated output power	W	63000	75000	85000	100000	125000
Max. apparent power	VA	69300	82500	93500	110000	137500
Max. AC output current	A	105	125	141.7	166.7	208.3
Backup output power	W	63000	75000	85000	100000	125000
Peak (surge) power	W	100800	120000	136000	160000	200000
AC/GEN input: Rated input power	W	63000	75000	85000	100000	125000
Backup: Max. AC apparent power	VA	69300	82500	93500	110000	137500
Backup: Max. output current	A	105	125	141.7	166.7	208.3

Parameter	Unit	WIT 63K-XHU	WIT 75K-XHU	WIT 85K-XHU	WIT 100K-XHU	WIT 125K-XHU
Battery						
Max. charge power	W	63000	75000	85000	100000	125000
Max. discharge power	W	63000	75000	85000	100000	125000
General data						
Dimensions (W x H x D)	mm	720 × 1360 × 400				
Certifications						
Certifications and standards		CE/CB; RoHS; IEC 62109-1; IEC 62109-2				
Grid codes		IEC 62116; IEC 61727; IEC 61683; IEC 60068; EN 50549-1-10; EN 50549-2-10; CEI 0-16 & 0-21; UNE 21700/NTS; NRS 097-2-1				

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Backup: Max. output current	A	105	125	141.7	166.7	208.3
Battery						
Max. charge power	W	63000	75000	85000	100000	125000
Max. discharge power	W	63000	75000	85000	100000	125000
General data						
Dimensions (W x H x D)	mm	1260 × 665 × 428				
Certifications						
Certifications and standards		IEC/EN 62109-1; IEC/EN 62109-2; IEC/EN 61000; IEC/EN 62920				
Grid codes		EN 50549-1; EN 50549-10				

Specifications are subject to change without notice. Values are typical at 25 °C unless stated.

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