

INVERTERS

WIT 50-150K-XHU-US

Hybrid inverter · Three-phase · 50 – 150 kW · 7 models


50 – 150 kW

RATED POWER

Three-phase

PHASE

10

MPPT TRACKERS

98.5 %

MAX. EFFICIENCY

Parameter	Unit	WIT 50K-XHU-US	WIT 63K-XHU-US	WIT 75K-XHU-US	WIT 85K-XHU-US	WIT 100K-XHU-US	WIT 125K-XHU-US	WIT 150K-XHU-US
PV input								
Max. PV input power	W	100000	126000	150000	170000	200000	250000	
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 output power	W	50000	63000	75000	85000	100000	125000	150000
Max. apparent power	VA	55000	69300	82500	93500	110000	137500	165000
Rated AC voltage	V	480						
Phase		Three-phase						
Rated AC frequency	Hz	50/60						
Max. AC output current	A	66.2	83.4	99.3	112.5	132.4	165.5	198.6
Power factor		-1 to +1 (adjustable)						
Total harmonic distortion (THDi)	%	<3						
Backup output power	W	50000	63000	75000	85000	100000	125000	150000
Peak (surge) power	W	80000	100800	120000	136000	160000	200000	240000
Generator input		Yes						
Max. parallel units		10						
Nominal AC voltage and range (grid)		277/480 V, -15% to +10%						
AC grid connection type		3P3W+PE / 3P4W+PE						

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Nominal AC grid frequency range (50 Hz / 60 Hz)	Hz	45-55 / 55-65						
AC/GEN input: Rated input power	W	50000	63000	75000	85000	100000	125000	150000
AC/GEN input: Max. input current	A	250						
Backup: Max. AC apparent power	VA	55000	69300	82500	93500	110000	137500	165000
Backup: Nominal AC voltage		277 V (L-N); 480 V (L-L)						
Backup: Nominal AC output frequency	Hz	50/60						
Backup: Load connection		3P3W+PE / 3P4W+PE						
Backup: Max. output current	A	66.2	83.4	99.3	112.5	132.4	165.5	198.6
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						
Battery								
Battery voltage range	V	180 – 1000						
Max. charge current	A	200						
Max. discharge current	A	200						
Max. charge power	W	50000	63000	75000	85000	100000	125000	150000
Max. discharge power	W	50000	63000	75000	85000	100000	125000	150000
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								
Dimensions (W x H x D)	mm	720 × 1360 × 400						
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						

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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)						
Certifications								
Certifications and standards		UL 1741:2021; UL 1741 Mutimod; CSA 22.2 No. 107; UL 1998; UL 1699B; UL 3141; E 5000; FCC Part 15						
Grid codes		IEEE 1547:2018; IEEE 1547.1:2020; HECO Rule 14; UL 1741 SA/SB:2020; CSA 22.3 No.9; CEC/SGIP						

Specifications are subject to change without notice. Values are typical at 25 °C unless stated.
XUSION is a brand of Hunan New Lithium Aviation Technology Co., Ltd.

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