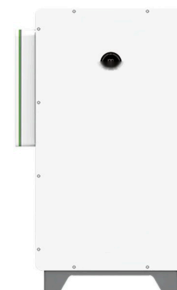


INVERTERS

WIT 50-100K-HU-AU

Hybrid inverter · Three-phase · 50 – 100 kW · 4 models


50 – 100 kW

RATED POWER

Three-phase

PHASE

7

MPPT TRACKERS

98.2 %

MAX. EFFICIENCY

Parameter	Unit	WIT 50K-HU	WIT 63K-HU	WIT 75K-HU	WIT 100K-HU
PV input					
Max. PV input power	W	109200	124800	156000	
Max. PV input voltage	V	1000			
Rated PV input voltage	V	550			
MPPT voltage range	V	180 – 800			
Start-up voltage	V	195			
Max. input current per MPPT	A	32			
Max. short-circuit current per MPPT	A	40			
Number of MPPT trackers		7	8	10	
PV strings per MPPT		2			
AC output					
Rated output power	W	50000	63000	75000	100000
Max. apparent power	VA	55000	69300	82500	110000
Rated AC voltage	V	400			
Phase		Three-phase			
Rated AC frequency	Hz	50/60			
Max. AC output current	A	83.3	105	125	166.7
Power factor		-1 to +1 (adjustable)			
Total harmonic distortion (THDi)	%	<3			
Backup output power	W	50000	63000	75000	100000
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 input data (grid): Nominal power	kW	50 / 100	63 / 126	75 / 150	100 / 200

Parameter	Unit	WIT 50K-HU	WIT 63K-HU	WIT 75K-HU	WIT 100K-HU
AC input data (grid): Max. apparent power	kVA	55 / 100	69.3 / 126	82.5 / 150	110 / 200
AC input data (grid): Max. current	A	83.3 / 151.5	105 / 190.9	125 / 227.3	166.7 / 303
Backup: Max. AC apparent power	VA	60000	75600	90000	120000
Backup: Rated AC output 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: Max. output current	A	90.9	114.5	136.4	181.8
Backup: THDv (linear load)	%	<3			
Backup: Load unbalance		100% three-phase unbalanced			
Backup: Overload capability		<=110%: continuous; 110-120%: <10 min; >120%: 200 ms			
Backup: On/off-grid transfer time		<=10 ms			
Battery					
Battery voltage range	V	600 – 1000			
Max. charge current	A	83.3	105	125	167
Max. discharge current	A	83.3	105	125	167
Max. charge power	W	56700	71400	85100	113500
Max. discharge power	W	56700	71400	85100	113500
Battery voltage range by grid connection		600-1000 V (3P3W); 680-1000 V (3P4W); derating above 850 V			
Recommended battery voltage	V	768			
BMS communication		RS485 / CAN			
Efficiency					
Max. efficiency	%	98.2			
European efficiency	%	97.8			
Protection					
Protection functions		PV 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 (optional)			
General data					
Dimensions (W x H x D)	mm	820 × 1350 × 510			
Weight	kg	153		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			

Parameter	Unit	WIT 50K-HU	WIT 63K-HU	WIT 75K-HU	WIT 100K-HU
UPS function		Yes			
Black start function		Yes			
Diesel generator (DG) remote control		Yes			
Grid-support functions		Yes			
Max. system capacity (scalable configuration)	kW	300			
Communication					
Display		OLED + LED; Wi-Fi + app			
Communication interfaces		RS485; CAN; USB; Wi-Fi (optional); LAN (optional)			
Certifications					
Certifications and standards		EN 62920:2017; IEC/EN 62477-1; IEC/EN 62109-1; IEC/EN 62109-2			
Grid codes		IEC 62116; IEC 61727; G99:2020; EN 50549-1; VDE 4105; NRS 097-2-1			

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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