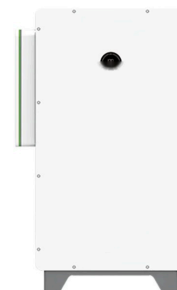


INVERTERS

WIT 28-55K-HU-AU-US L2

Hybrid inverter · Three-phase · 28 – 55 kW · 8 models


28 – 55 kW

RATED POWER

Three-phase

PHASE

5

MPPT TRACKERS

98.2 %

MAX. EFFICIENCY

Parameter	Unit	WIT 28K-HU-US L2	WIT 35K-HU-US L2	WIT 40K-HU-US L2	WIT 55K-HU-US L2	WIT 28K-AU-US L2	WIT 35K-AU-US L2	WIT 40K-AU-US L2	WIT 55K-AU-US L2
PV input									
Max. PV input power	W	54000	75600	86400	108000	-			
Max. PV input voltage	V	630				-			
Rated PV input voltage	V	360				-			
MPPT voltage range	V	180 – 550				-			
Start-up voltage	V	195				-			
Max. input current per MPPT	A	32				-			
Max. short-circuit current per MPPT	A	40				-			
Number of MPPT trackers		5	7	8	10	-			
PV strings per MPPT		2				-			
AC output									
Rated output power	W	28000	35000	40000	55000	28000	35000	40000	55000
Max. apparent power	VA	30800	38500	44000	60500	30800	38500	44000	60500
Rated AC voltage	V	208							
Rated AC voltage options	V	208 / 220							
AC voltage range		-15% / +10%							
Phase		Three-phase							
Grid connection type		3P3W+PE / 3P4W+PE							
Rated AC frequency	Hz	60				50/60			
Grid frequency range	Hz	55 – 65				45-55 / 55-65			
Max. AC output current	A	85.6	106.9	122.2	168.1	85.6	106.9	122.2	168.1
Max. output current at 220 V	A	80.8	101	115.5	158.8	80.8	101	115.5	158.8
Power factor		-1 to +1(adjustable)							
Total harmonic distortion (THDi)	%	<3							

Parameter	Unit	WIT 28K-HU-US L2	WIT 35K-HU-US L2	WIT 40K-HU-US L2	WIT 55K-HU-US L2	WIT 28K-AU-US L2	WIT 35K-AU-US L2	WIT 40K-AU-US L2	WIT 55K-AU-US L2
AC input nominal power (grid side)	W	56000	70000	80000	110000	56000	70000	80000	110000
Max. AC input apparent power (grid side)	VA	56000	70000	80000	110000	56000	70000	80000	110000
Nominal AC input current at 208 V / 220 V	A	155.6 / 147	194.4 / 183.7	222.2 / 210	305.6 / 288.7	155.6 / 147	194.4 / 183.7	222.2 / 210	305.6 / 288.7
Backup output power	W	28000	35000	40000	55000	28000	35000	40000	55000
Max. backup apparent power	VA	33600	42000	48000	66000	33600	42000	48000	66000
Max. single-phase power (backup)	W	9300	11600	13300	18300	9300	11600	13300	18300
Nominal backup AC voltage	V	120 / 127 (L-N); 208 / 220 (L-L)							
Nominal backup AC frequency	Hz	50 / 60							
Max. backup output current (at 208 V L-L / 120 V L-N)	A	93.3	116.7	133.3	183.3	93.3	116.7	133.3	183.3
Max. backup output current (at 220 V L-L / 127 V L-N)	A	88.2	110	126	173.2	88.2	110	126	173.2
Backup overload capability		<=110%: continuous; 110%-120%: <10 min; >120%: 200 ms				<=110%: continuous; 110%-120%: 10 min; >120%: 200 ms			
Backup load unbalance	%	100							
Backup THDv	%	<3							
On/off-grid transfer time	ms	≤16.6							
UPS function and black start		Supported							
Max. scalable system power	kW	165							
Diesel generator (DG) remote control		Supported							
Battery									
Battery type		Lithium							
Battery voltage range	V	380 – 650							
Recommended battery voltage	V	512							
Max. charge current	A	79	99	113	156	79	99	113	156
Max. discharge current	A	79	99	113	156	79	99	113	156
Continuous charging / discharging power	W	31700	39700	45300	62300	31700	39700	45300	62300
BMS communication		RS485 / CAN							
Efficiency									
Max. efficiency	%	98.2							
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; String monitoring; Anti-islanding protection; PID protection; AFCI function (optional)				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; Anti-islanding protection			

Parameter	Unit	WIT 28K-HU-US L2	WIT 35K-HU-US L2	WIT 40K-HU-US L2	WIT 55K-HU-US L2	WIT 28K-AU-US L2	WIT 35K-AU-US L2	WIT 40K-AU-US L2	WIT 55K-AU-US L2
General data									
Dimensions (W x H x D)	mm	850 × 1350 × 510							
Weight	kg	153		160		140			
Ingress protection (IP rating)		IP66							
NEMA enclosure rating		NEMA 4X							
Operating temperature range	°C	−30 – 60							
Power derating above	°C	50							
Max. operating altitude	m	4000							
Topology		Transformerless							
Cooling		Smart air cooling							
Warranty	years	5 – 10							
Communication									
Display		OLED + LED / Wi-Fi + App							
Communication interfaces		RS485; CAN; Wi-Fi (optional); 4G (optional); LAN (optional)							
Certifications									
Certifications and standards		UL1741:2021; UL1998:2018; CSA C22.2.107.1; FCC Part 15; CEC							
Grid codes		UL1741 SA/SB:2020; IEEE1547:2018; IEEE1547.1:2020; HECO Rule14; E-5000; CSIP; SA17-SA18							

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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