



Aarusha

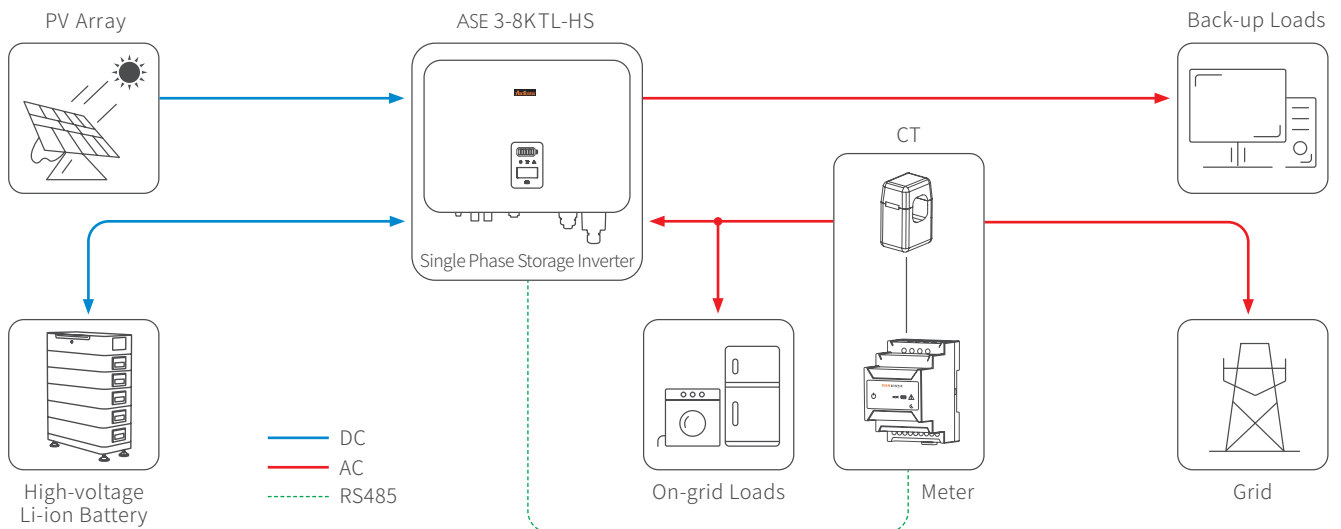
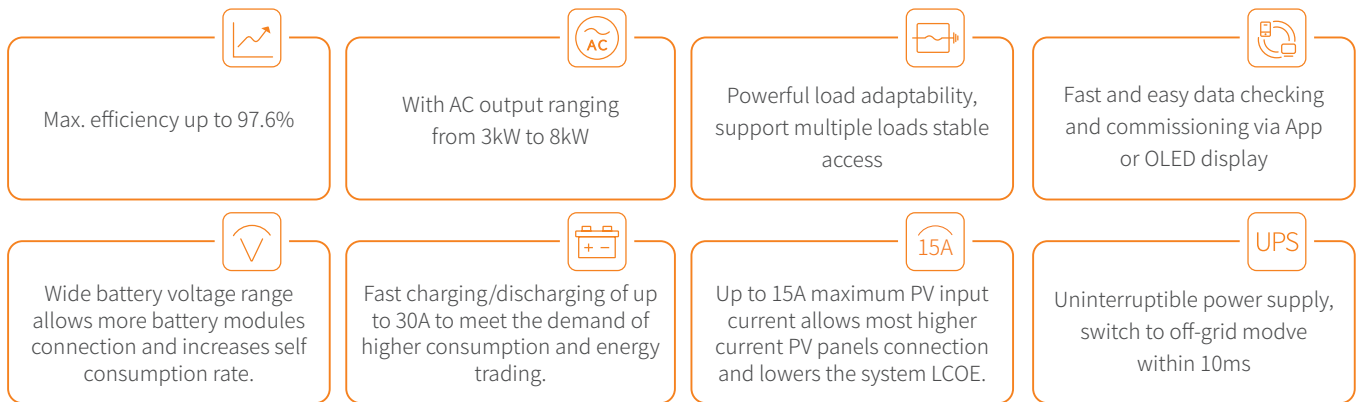
Aarusha Single Phase Storage Inverter with Two MPPT

ASE-3~3.6KTL-HSS

ASE-3K~8KTL-HS

MAX 97.6% EFFICIENCY

IP65 PROTECTION



Aarusha

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TECHNICAL PARAMETERS

SINGLE PHASE:ASE-3~3.6KTL-HSS、ASE-4.2K~8KTL-HS

Model		ASE-3KTL-HSS	ASE-3.6KTL-HSS	ASE-4.2KTL-HS	ASE-4.6KTL-HS	ASE-5KTL-HS	ASE-6KTL-HS	ASE-7KTL-HS	ASE-8KTL-HS
PV Input	Max. Input Power (W)	4,800	5,760	6,720	7,360	8,000	9,600	11,200	12,800
	Start-up Voltage (V)	80	80	80	80	80	80	80	80
	Max. DC Input Voltage (V)	600	600	600	600	600	600	600	600
	Rated DC Input Voltage (V)	360	360	360	360	360	360	360	360
	MPPT Voltage Range (V)	100-550	100-550	100-550	100-550	100-550	100-550	100-550	100-550
	No. of MPP Trackers	1	1	2	2	2	2	2	2
	No. of PV Inputs per MPPT	1	1	1/1	1/1	1/1	1/1	1/1	1/1
	Max. Input Current (A)	15	15	15/15	15/15	15/15	15/15	15/15	15/15
	Max. Short-circuit Current (A)	20	20	20/20	20/20	20/20	20/20	20/20	20/20
Battery	Battery Type	Lithium Battery (with BMS)							
	Battery Communication Mode	CAN / RS485							
	Battery Voltage Range (V)	85-500							
	Max. Charge/Discharge Current (A)	30/30							
	Rated Current of Built-in Fuse (A)	63							
Output (Grid)	Rated Output Power (W)	3,000	3,600	4,200	4,600	5,000	6,000	7,000	8,000
	Max. Output Power (W)	3,300	3,960	4,600	4,600	5,500	6,600	7,700	8,000
	Max. Apparent Power (VA)	3,300	3,960	4,600	4,600	5,500	6,600	7,700	8,000
	Max. Input Apparent Power (VA)	6,000 ^①	7,200 ^①	8,400 ^①	9,200 ^①	10,000 ^①	12,000 ^①	12,000 ^①	12,000 ^①
	Max. Charging Power of Battery (W)	3,000	3,600	4,200	4,600	5,000	6,000	7,000	8,000
	Rated Output Voltage (V)	L/N/PE, 220/230/240V							
	Rated AC Frequency (Hz)	50/60							
	Max. Output Current (A)	15	18	21	21	25/21.7	28.7	35	36.3
	Power Factor	0.8 leading ...0.8 lagging							
	Max. Total Harmonic Distortion	<3% @Rated Output Power							
	DCI	<0.5%In							
Output (Back-up)	Rated Output Power (W)	3,000	3,600	4,200	4,600	5,000	6,000	7,000	8,000
	Max. Output Power (W)	3,300	3,960	4,600	4,600	5,500	6,600	7,700	8,000
	Back-up output rated apparent power (VA)	3,000	3,600	4,200	4,600	5,000	6,000	7,000	8,000
	Max. Apparent Power (VA)	3,300	3,960	4,600	4,600	5,500	6,600	7,700	8,000
	Back-up output rated current (A)	13	15.7	18.3	20	21.7	26.1	31.8	36.3
	Max. Output Current (A)	15	18	21	21	25/21.7	28.7	35	36.3
	UPS switching time	<10ms	<10ms	<10ms	<10ms	<10ms	<10ms	<10ms	<10ms
	Rated Output Voltage (V)	L/N/PE, 220/230/240							
	Rated AC Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
	Peak output apparent power (VA)	3,900 ^② , 60s	4,700 ^② , 60s	5,500 ^② , 60s	6,000 ^② , 60s	6,500 ^② , 60s	7,800 ^② , 60s	9,100 ^② , 60s	10,000 ^② , 60s
	Voltage harmonic distortion	<3% @Linear load							
Efficiency	Max. Efficiency	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%
	European Efficiency	97.0%	97.0%	97.0%	97.0%	97.0%	97.0%	97.0%	97.0%
	Max. Battery Charging Conversion Efficiency	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%
	Max. Battery Discharge Conversion Efficiency	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%	96.6%

Protection	
DC Reverse Polarity Protection	Integrated
Battery Input Reverse Connection Protection	Integrated
Insulation Resistance Protection	Integrated
DC Switch	Optional
Surge Protection	Integrated
Over-temperature Protection	Integrated
Residual Current Protection	Integrated
Islanding Protection	Frequency Shift, Integrated
AC Over-voltage Protection	Integrated
Overload Protection	Integrated
AC Short-circuit Protection	Integrated

General Data	
Over Voltage Category	PV: II ; Main: III
Dimensions (mm)	550W*410H*175D
Weight (KG)	26
Protection Degree	IP65
Self-consumption at Night (W)	< 15
Topology	Transformer less
Operating Temperature Range (° C)	-30~60
Relative Humidity (%)	0~100
Operating Altitude (m)	4000 (derating@ > 3000)
Cooling	Natural Convection
Noise Level (dB)	< 25
Display	OLED & LED
Communication	WiFi / LAN (Optional)

Compliance	
IEC61683:1999、IEC61727:2004 IEC62116:2014、IEC60068-2-1:2007、IEC60068-2-2:2007、IEC60068-2-14:2009、IEC60068-2-30:2005、EN61000、IEC62109	

① The grid feed in power for AS/NZS 4777.2 is limited 4.99kW & 4.99kVA & 21.7A.

② Max apparent power from the grid means the maximum power imported from the utility grid used to satisfy the backup loads and charge the battery.

③ The output power will exceed the rated value only when the power in the PV array is sufficient, and the duration of the overload is relating to the overload power.

Note : The specifications included in this datasheet are subject to change without notice.



Aaksha