Single Phase Hybrid Storage Inverter



The Solareast Ares low voltage series storage Inverters are designed to increase energy independence for homeowners. The power range is from 1kW to 6kW, compatible with low voltage (40-60V) batteries.

Energy management is based on time-of-use and demand charge rate structures, which significantly reduce the amount of energy purchased from the public grid.

Thanks for the UPS function (switch time < 10ms), that enables the crucial loads power on during outages. Additionally, under the backup operation mode, the inverter provides you up to 150% peak output overloading.

The Ares low voltage series storage inverters are integrated with Arc Fault Circuit Interrupter (AFCI) and rapid shutdown.



1.5 Times PV Oversize







Configurable Operation Modes



UPS FUNCTION Switch Time < 10ms



PARALLEL Max.6 Parallel Stacking



Support Generator

Support for Time-of-use Optimization



Build in Anti-feed-in Function



Compact Size and Easy Installation





Smart Monitoring & Remote Firmware Upgrade

Single Phase Hybrid Storage Inverter

4-6 kW Plus Series



The Solareast Ares low voltage series storage Inverters are designed to increase energy independence for homeowners. The power range is from 4kW to 6kW, compatible with low voltage (40-60V) batteries.

Energy management is based on time-of-use and demand charge rate structures, which significantly reduce the amount of energy purchased from the public grid.

Thanks for the UPS function (switch time < 10ms), that enables the crucial loads power on during outages. Additionally, under the backup operation mode, the inverter provides you up to 150% peak output overloading.

The Ares low voltage series storage inverters are integrated with Arc Fault Circuit Interrupter (AFCI) and rapid shutdown.







PV OVERSIZE 1.5 Times PV Oversize



MPPT CHANNELS Un to 2 MPPT Channels



UPS FUNCTION Switch Time < 10ms



PARALLEL Max.6 Parallel Stacking

Support for Time-of-use Optimization

Arc Fault Circuit Interrupter (AFCI) (Optional)



Build in Anti-feed-in Function



Compact Size and Easy Installation



Smart Monitoring & Remote Firmware Upgrade

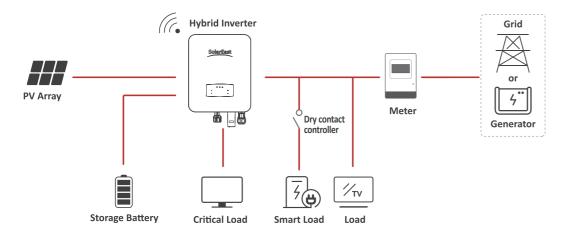


Off-grid mode, with a larger load capacity, The charging and discharging power of the battery is greater the maximum load can be 6KVA

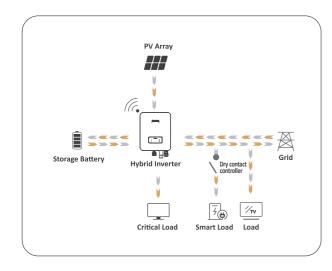
Technical Data	Ares 1KL1	Ares 1.5KL1	Ares 2KL1	Ares 2.5KL1	Ares 3KL1	Ares 3.6KL1
PV Input						
Max. Input Power (kW)	1.5	2.3	3.0	3.8	4.5	5.4
Max. PV Voltage (V)			- 5	550		
MPPT Range (V)			80	- 500		
Full MPPT Range (V)	80 - 500	90 - 500	120 - 500	150 - 500	170 - 500	210 - 500
Normal Voltage (V)			3	860		
Startup Voltage (V)			1	.00		
Max. Input Current (A)			18.	5 x 1		
Max. Short Current (A)			26	5 x 1		
No. of MPP Tracker / No. of PV String			1	/ 1		
Battery Port						
Max. Charge/Discharge Power (kW)	1.0	1.5	2.0	2.5	3.0	3.6
Max. Charge/Discharge Current (A)	25	40	50	63	80	80
Battery Normal Voltage (V)				1.2		
Battery Voltage Range (V)			40	- 60		
Battery Type			Li-ion / Le	ad-acid etc.		
AC Grid						
Max Continuous Current (A)	5.0	7.0	10.0	12.0	14.0	17.0
Max Continuous Power (kVA)	1.0	1.5	2.0	2.5	3.0	3.6
Nominal Grid Current (A)	4.6 / 4.4	6.9 / 6.6	9.1 / 8.7	11.4 / 10.9	13.7 / 13.1	16.4 / 15.7
Nominal Grid Voltage (V)		:		/ 207 to 253 @ 230		
Nominal Grid Frequency (Hz)				/ 60		
Power Factor		0.999 (Adju		verexcited to 0.8 und	lerexcited)	
Current THD (%)			•	< 3		
AC Load Output	5.0	7.0	10.0	12.0	44.0	47.0
Max Continuous Current (A)	5.0	7.0	10.0	12.0	14.0	17.0
Max Continuous Power (kVA)	1.0	1.5	2.0	2.5	3.0	3.6
Max Peak Current (A) (10min)	6.9 / 6.6	10.5 / 10.0	13.7 / 13.1	17.3 / 16.6	20.5 / 19.6	24.6 / 23.5
Max Peak Power (kVA) (10min)	1.5	2.3	3.0	3.8	4.5	5.4
Nominal AC Voltage L-N (V)				/ 230		
Nominal AC Frequency (Hz)				/ 60		
Switching Time (ms) Voltage THD (%)				mless < 3		
Efficiency						
CEC Efficiency (%)			g	7.0		
Max. Efficiency (%)				7.6		
PV to Bat. Efficiency (%)				8.1		
Bat. between AC Efficiency (%)				6.8		
Protection			-			
PV Reverse Polarity Protection			\	res		
Over Current/Voltage Protection				res		
Anti-Islanding Protection				res .		
AC Short Circuit Protection				′es		
Residual Current Detection			١	'es		
Ground Fault Monitoring			١	'es		
Insulation Resister Detection				es es		
PV Arc Detection				es es		
Enclosure Protect Level			IP65 /	NEMA4X		
General Data						
Dimensions (W x H x D, mm)			370 x 5	35 x 192		
Weight (kg)			1	8.5		
Topology			Transfo	ormerless		
Cooling			Intelli	gent Fan		
Relative Humidity			0 - :	100 %		
Operating Temperature Range (°C)			- 25	to 60		
Operating Altitude (m)			< 4	1000		
Noise Emission (dB)			<	25		
Standby Consumption (W)			<	10		
Mounting				Bracket		
Communication with RSD			SUN	ISPEC		
Display & Communication Interfaces			LCD, LED, RS485, (CAN, Wi-Fi, GPRS, 4G		
Certification & Approvals	NRS097	, G98, EN50549-1, C1	.0/C11, AS4777.2, \	/DE-AR-N4105, VDE01	126, IEC62109-1, IEC	C62109-2
EMC			EN61000-6-2	2, EN61000-6-3		

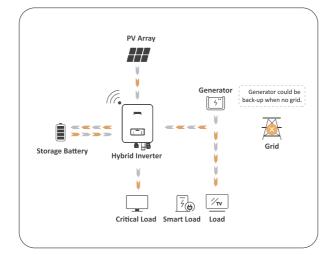
Technical Data	Ares 3KL	Ares 3.6KL	Ares 4KL	Ares 4.6KL	Ares 5KL	Ares 5.5KL	Ares 6KL
PV Input	4.5	F 4	6.0	6.0	7.5	0.2	0.0
Max. Input Power (kW)	4.5	5.4	6.0	6.9	7.5	8.3	9.0
Max. PV Voltage (V)				550			
MPPT Range (V)	00 500	110 500	120 500	80 - 500	150 500	160 500	170 500
Full MPPT Range (V)	90 - 500	110 - 500	120 - 500	130 - 500	150 - 500	160 - 500	170 - 500
Normal Voltage (V)				360			
Startup Voltage (V)				100 18.5 x 2			
Max. Input Current (A)							
Max. Short Current (A)				26 x 2			
No. of MPP Tracker / No. of PV String				2/2			
Battery Port	3.0	3.6	4.0	4.6	4.8	4.8	4.8
Max. Charge/Discharge Power (kW)	3.0	3.0	4.0		4.0	4.0	4.0
Max. Charge/Discharge Current (A)				80			
Battery Normal Voltage (V)				51.2			
Battery Voltage Range (V)				40 - 60			
Battery Type			Li-	ion / Lead-acid etc	C		
AC Grid							
Max Continuous Current (A)	14.0	17.0	19.0	22.0	23.0	26.0	28.0
Max Continuous Power (kVA)	3.0	3.6	4.0	4.6	5.0	5.5	6.0
Nominal Grid Current (A)	13.7 / 13.1	16.4 / 15.7	18.2 / 17.4	21.0 / 20.0	22.8 / 21.8	25.0 / 24.0	27.3 / 26.1
Nominal Grid Voltage (V)			198 to 242	@ 220 / 207 to 2	253 @ 230		
Nominal Grid Frequency (Hz)				50 / 60			
Power Factor		0.999	(Adjustable from	n 0.8 overexcited	to 0.8 underex	cited)	
Current THD (%)				< 3			
AC Load Output							
Max Continuous Current (A)	14.0	17.0	19.0	22.0	23.0	26.0	28.0
Max Continuous Power (kVA)	3.0	3.6	4.0	4.6	5.0	5.5	6.0
Max Peak Current (A) (10min)	20.5 / 19.6	24.6 / 23.5	27.3 / 26.1	31.4 / 30	34.1 / 32.7	37.8 / 36.1	41.0 / 39.2
Max Peak Power (kVA) (10min)	4.5	5.4	6.0	6.9	7.5	8.3	9.0
Nominal AC Voltage L-N (V)				220 / 230			
Nominal AC Frequency (Hz)				50 / 60			
Switching Time (ms)				Seamless			
Voltage THD (%)				< 3			
Efficiency							
CEC Efficiency (%)				97.0			
Max. Efficiency (%)				97.6			
PV to Bat. Efficiency (%)				98.1			
Bat. between AC Efficiency (%)				96.8			
Protection							
PV Reverse Polarity Protection				Yes			
Over Current/Voltage Protection				Yes			
Anti-Islanding Protection				Yes			
AC Short Circuit Protection				Yes			
Residual Current Detection				Yes			
Ground Fault Monitoring				Yes			
Insulation Resister Detection				Yes			
PV Arc Detection				Yes			
Enclosure Protect Level				IP65 / NEMA4X			
General Data							
Dimensions (W x H x D, mm)				370 x 535 x 192			
Weight (kg)	18	3.5			20.5		
Topology				Transformerless			
Cooling				Intelligent Fan			
Relative Humidity				0 - 100 %			
Operating Temperature Range (°C)				- 25 to 60			
Operating Altitude (m)				< 4000			
Operating Attitude (III)				< 25			
Noise Emission (dB)							
				< 10			
Noise Emission (dB)				< 10 Wall Bracket			
Noise Emission (dB) Standby Consumption (W)							
Noise Emission (dB) Standby Consumption (W) Mounting			LCD. LED. F	Wall Bracket SUNSPEC	GPRS. 4G		
Noise Emission (dB) Standby Consumption (W) Mounting Communication with RSD	NRS097	, G98/G99. FN505		Wall Bracket		. IEC62109-1 IFC6	2109-2

For New Storage System:



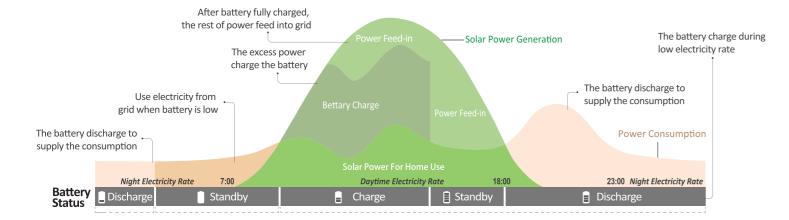
Optimizing Self-Consumption (on-grid) + Emergency Power Supply (off-grid)





Optimizing Self-Consumption Mode

With home energy storage installed, home owners may also be able to change from a flat rate electricity tariff to a time-of-use tariff. For the areas and regions, where peak shaving can be applied.



Technical Data	Ares 4KLP	Ares 4.6KLP	Ares 5KLP	Ares 5.5KLP	Ares 6KLP
PV Input					
Max. Input Power (kW)	6	6.9	7.5	8.3	9
Max. PV Voltage (V)			550		
MPPT Range (V)	120 500	420 500	80 - 500	460 500	170 500
Full MPPT Range (V)	120 - 500	130 - 500	150 - 500	160 - 500	170 - 500
Normal Voltage (V)			360		
Startup Voltage (V)			100 18.5 x 2		
Max. Input Current (A) Max. Short Current (A)			26 x 2		
No. of MPP Tracker / No. of PV String			2/2		
Battery Port			2/2		
Max. Charge/Discharge Power (kW)	4.0	4.6	5.0	5.5	6.0
Max. Charge/Discharge Current (A)			120		
Battery Normal Voltage (V)			51.2		
Battery Voltage Range (V)			40 - 60		
Battery Type			Li-ion / Lead-acid etc.		
AC Grid			Li-ioii / Leau-aciu etc.		
Max Continuous Current (A)	19.0	22.0	23.0	26.0	28.0
Max Continuous Power (kVA)	4.0	4.6	5.0	5.5	6.0
Nominal Grid Current (A)	18.2 / 17.4	21.0 / 20.0	22.8 / 21.8	25.0 / 24.0	27.3 / 26.1
Nominal Grid Voltage (V)	10.2 / 17.4	,	42 @ 220 / 207 to 25		27.57 20.1
Nominal Grid Frequency (Hz)		130 to 2	50 / 60	3 @ 230	
Power Factor		0.999 (Adjustable f	from 0.8 overexcited to	0.8 underexcited)	
Current THD (%)			< 3		
AC Load Output					
Max Continuous Current (A)	19.0	22.0	23.0	26.0	28.0
Max Continuous Power (kVA)	4.0	4.6	5.0	5.5	6.0
Max Peak Current (A) (10min)	27.3 / 26.1	31.4 / 30	34.1 / 32.7	37.8 / 36.1	41.0 / 39.2
Max Peak Power (kVA) (10min)	6.0	6.9	7.5	8.3	9.0
Nominal AC Voltage L-N (V)			220 / 230		
Nominal AC Frequency (Hz)			50 / 60		
Switching Time (ms)			Seamless		
Voltage THD (%)			< 3		
Efficiency					
CEC Efficiency (%)			97.0		
Max. Efficiency (%)			97.6		
PV to Bat. Efficiency (%)			98.1		
Bat. between AC Efficiency (%)			96.8		
Protection					
PV Reverse Polarity Protection			Yes		
Over Current/Voltage Protection			Yes		
Anti-Islanding Protection			Yes		
AC Short Circuit Protection			Yes		
Residual Current Detection			Yes		
Ground Fault Monitoring			Yes		
Insulation Resister Detection			Yes		
PV Arc Detection			Yes		
Enclosure Protect Level General Data			IP65 / NEMA4X		
			370 x 535 x 192		
Dimensions (W x H x D, mm) Weight (kg)			20.5		
Topology			Transformerless		
Cooling			Intelligent Fan		
Relative Humidity			0 - 100 %		
Operating Temperature Range (°C)			- 25 to 60		
Operating Altitude (m)			< 4000		
Noise Emission (dB)			< 25		
Standby Consumption (W)			< 10		
Mounting			Wall Bracket		
Communication with RSD			SUNSPEC		
Display & Communication Interfaces		LCD, LEI	D, RS485, CAN, Wi-Fi, G	iPRS, 4G	
Certification & Approvals	NRS097, G9	98, EN50549-1, C10/C11, /			IEC62109-2
EMC			161000-6-2, EN61000-6		
			,		

Three Phase Hybrid Storage Inverter

3-30 kW





The Solareast Ares series three phase storage inverters are designed to increase energy independence for homeowners and commercial users. The power range is from 3.0kW to 30kW, compatible with high voltage (150-800V) batteries.

Energy management is based on time-of-use and demand charge rate structures, significantly reduce the amount of energy purchased from public grid.

Thanks for the UPS function (switch time < 10ms), that enables the crucial loads power on during outages. Additionally, under the backup operation mode, the inverter provides you up to 150% peak output overloading.







WIDE RANGE Voltage Range (150-800V)



100% UNBALANCE



PV OVERSIZE 1.5 Times PV Oversize



MAX. 40Adc String Current Up To 40A



UPS FUNCTION Switch Time < 10ms



INPUT Support Generator



from public grid.

SODIUM METAL CHLORIDE BATTERY
Support
Sodium metal chloride battery



3-12 kW Plus Series

MIN. 80V Battery Voltage Minimum 80V

operation mode, the inverter provides you up to 150% peak output overloading.



cial users. The power range is from 3.0kW to 12kW, compatible with high voltage (80-600V and 120-650V) batteries.

Three Phase Hybrid Storage Inverter

SolarEast

MAX. 50A Max. Charge/ Discharge Current 50A



The Solareast Ares three phase storage inverters plus series are designed to increase energy independence for homeowners and commer-

Energy management is based on time-of-use and demand charge rate structures, significantly reduce the amount of energy purchased

Thanks for the UPS function (switch time < 10ms), that enables the crucial loads power on during outages. Additionally, under the backup

100% UNBALANCE
Support Unbalance Load



PV OVERSIZE

1.5 Times PV Oversize



MAX. 20Adc String Current Up To 20A





Configurable Operation Modes

AFCI (Optional) & Rapid Shutdown Ready



Build in Anti-feed-in Function



100% unbalanced output, each phase; 200% unbalanced output, each phase (Below 10kW)



Smart Monitoring & Remote Firmware Upgrade

Support for Time-of-use Optimization

Configurable Operation Modes



Build in Anti-feed-in Function



100% unbalanced output, each phase; 200% unbalanced output, each phase (Below 10kW)



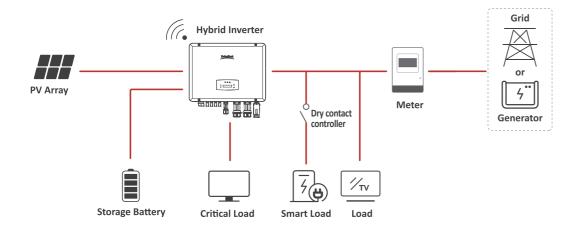


Smart Monitoring & Remote Firmware Upgrade

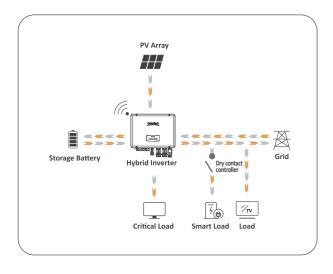
Technical Data	Ares 3KH3	Ares 4KH3	Ares 5KH3	Ares 6KH3	Ares 8KH3	Ares 10KH3
PV Input Max. DC Input Power (kW)	5	6	7.5	9	12	15
Max. PV Voltage (V)	<u> </u>	0			12	15
Rated DC Input Voltage (V)				20		
				1000		
DC Input Voltage Range (V)				-850		
MPPT Voltage Range (V)		200-850	130	250-850	300-850	500-850
Full MPPT Range(V)		200-830	1		300-830	300-830
Start-up Voltage (V)				50 x2		
Max. DC Input Current (A)						
Max. Short Current(A)				x2 /2		
No. of MPPT Tracker / Strings			۷,	/ 2		
Battery Port	200	200	200	250	200	400
Battery Nominal Voltage (V)	200	200			300	400
Battery Voltage Range (V)				-800		
Max. Charge/Discharge Current (A)				0		
Max. Charge/Discharge Power (kW)	3	4	5	6	8	10
Charging Curve				ages		
Compatible Battery Type		Li-ion	/ Lead-acid / Sodiu	m metal chloride b	attery	
AC Grid			_			42
Nominal AC Output Power (kW)	3	4	5	6	8	10
Max. AC Input/Output Power (kVA)	4.5 / 3.3	6 / 4.4	7.5 / 5.5	9 / 6.6	12 / 8.8	15 / 11
Max. AC Output Current (A)	5.3	7	8.5	10.5	13.5	17
Nominal AC Voltage (V)				/400		
Nominal AC Frenquency (Hz)				/60		
Power Factor) adjustable		
Current THD (%)			<	3 %		
AC Load Output (Back-up)						
Nominal Output Power (VA)	3000	4000	5000	6000	8000	10000
Nominal Output Voltage (V)			230	/400		
Nominal Output Frequency (Hz)			50	/60		
Nominal Output Current (A)	4.4	5.8	7.3	8.7	11.6	14.5
Peak Output Power	3300VA, 60s	4400VA, 60s	5500VA, 60s	6600VA, 60s	8800VA, 60s	11000VA, 60s
THDV (with linear load)			<:	3 %		
Switching Time (ms)			<	10		
Efficiency						
Europe Efficiency			97.	50%		
Max. Efficiency		98.0	00%		98.	20%
Battery Charge/Discharge Efficiency			98.	00%		
Protection						
Reverse Polarity Protection			Y	es		
Over Current / Voltage Protection			Υ	es		
Anti-islanding Protection			Υ	es		
AC Short-ciruit Protection			Υ	es		
Leakage Current Detection			Υ	es		
Ground Fault Monitoring			Υ	es		
Grid Monitoring			Υ	es		
Enclosure Protect Level			IP	65		
General Data						
Dimensions (W x H x D, mm)			370 x 497 x 192 /	558 x 535 x 260 mn	1	
Weight (kg)				/ 29kg		
Topology				rmerless		
Cooling Concept		Natural C	onvection		Intellie	gent Fan
Relatively Humidity				00%		- :
Operating Temperature Range (°C)				o 60 °C		
Operating Altitude (m)				000		
Noise Emission (dB)				30		
Standby Consumption (W)				5		
Display & Communication Interfaces				AN, Wi-Fi, GPRS, 40	ì	
Certification & Approvals	NRS097 G98/G			E-AR-N4105, VDE0:		FC62109-2
		_,, _,, C10,	,,, ٧١			

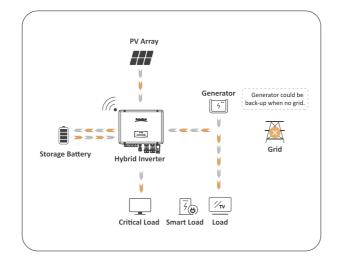
Technical Data	Ares 12KH3	Ares 15KH3	Ares 17KH3	Ares 20KH3	Ares 25KH3	Ares 30KH3				
PV Input										
Max. DC Input Power (kW)	18	22.5	25.5	30	37.5	45				
Max. PV Voltage (V)			10	00						
Rated DC Input Voltage (V)			62	20						
DC Input Voltage Range (V)			150-	1000						
MPPT Voltage Range (V)			150	-850						
Full MPPT Range(V)			500	-850						
Start-up Voltage (V)	160									
Max. DC Input Current (A)	20x2	20+32	32			x2				
Max. Short Current(A)	30x2	30+48	48		1	x2				
No. of MPPT Tracker / Strings	2/2	2/3	2,	' 4	2/	′4				
Battery Port										
Battery Nominal Voltage (V)	450	500	400	500	500	550				
Battery Voltage Range (V)			150	-800						
Max. Charge/Discharge Current (A)	30	50	50	50	60	60				
Max. Charge/Discharge Power (kW)	12	15	17	20	25	30				
Charging Curve			3 St	ages						
Compatible Battery Type		Li-ion	/ Lead-acid / Sodiu	m metal chloride ba	attery					
AC Grid										
Nominal AC Output Power (kW)	12	15	17	20	25	30				
Max. AC Input/Output Power (kVA)	18 / 13.2	22.5 / 16.5	25.5 / 18.7	30 / 22	37.5 / 27.5	45 / 33				
Max. AC Output Current (A)	21.5	27	30	32	40	48				
Nominal AC Voltage (V)			230,	/400						
Nominal AC Frenquency (Hz)			50,	/60						
Power Factor			1 (-0.8-0.8) adjustable						
Current THD (%)			<3	3%						
AC Load Output (Back-up)										
Nominal Output Power (VA)	12000	15000	17000	20000	25000	30000				
Nominal Output Voltage (V)			230,	/400						
Nominal Output Frequency (Hz)			50,	/60						
Nominal Output Current (A)	17.4	21.8	24.7	29	36.3	43.5				
Peak Output Power	13200VA, 60s	16500VA, 60s	18700VA, 60s	22000VA, 60s	27500VA, 60s	33000VA, 60				
THDV (with linear load)			<3	3%						
Switching Time (ms)			<:	10						
Efficiency										
Europe Efficiency	97.5	i0%	97.8	30%	98.00%	98.10%				
Max. Efficiency	37.5		30%	70 70		50%				
Battery Charge/Discharge Efficiency		30	98.0	00%	50.	5070				
Protection			30.0	70 70						
Reverse Polarity Protection			Y	25						
Over Current / Voltage Protection			Y							
Anti-islanding Protection				es						
AC Short-ciruit Protection			Y							
Leakage Current Detection			Y							
Ground Fault Monitoring			Y							
Grid Monitoring			Y							
Enclosure Protect Level			IP							
General Data			IP							
	70 v 407 v 102 / EE9 v E2E v 260			558 x 535 x 260 mm	2					
	70 x 497 x 192 / 558 x 535 x 260			338 X 333 X 200 IIIII		.ka				
Weight (kg)	20.8 / 29kg 29kg 36kg Transformerless									
Topology Cooling Concept										
Cooling Concept Polatively Humidity				ent Fan 00%						
Relatively Humidity Operating Temperature Pange (°C)				0 60 °C						
Operating Temperature Range (°C)										
Operating Altitude (m)			< 40							
Noise Emission (dB)				10						
Standby Consumption (W)	<5 LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G									
Display 0 Campana : + 1 - + f										
Display & Communication Interfaces Certification & Approvals	NDCOOZ COO			, VDE-AR-N4105, VI		1 JECC3100 2				

For New Storage System:



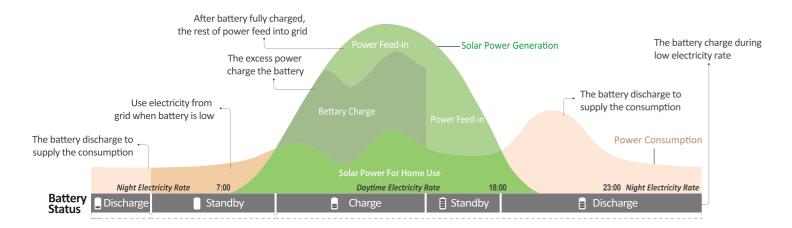
Optimizing Self-Consumption (on-grid) + Emergency Power Supply (off-grid)





Optimizing Self-Consumption Mode

With energy storage system installed, users may also be able to change from a flat rate electricity tariff to a time-of-use tariff. For the areas and regions, where peak shaving can be applied.



Technical Data	Ares 3KHP3	Ares 4KHP3	Ares 5KHP3	Ares 6KHP3	Ares 8KHP3	Ares 10KHP3	Ares 12KHP3
PV Input							
Max. DC Input Power (kW)	5	6	7.5	9	12	15	18
Max. PV Voltage (V)				1000			
Rated DC Input Voltage (V)				620			
DC Input Voltage Range (V)				150-1000			
MPPT Voltage Range (V)				150-850			
Full MPPT Range(V)		200-850		250-850	300-850	500	-850
Start-up Voltage (V)				160			
Max. DC Input Current (A)				20x2			
Max. Short Current(A)				30x2			
No. of MPPT Tracker / Strings				2/2			
Battery Port							
Battery Nominal Voltage (V)	100	100	100	150	200	250	300
Battery Voltage Range (V)			80-600			120	-650
Max. Charge/Discharge Current (A)				50			
Max. Charge/Discharge Power (kW)	3	4	5	6	8	10	12
Charging Curve				3 Stages			
Compatible Battery Type			Li-ion / Lead-acid	d / Sodium metal o	chloride battery		
AC Grid							
Nominal AC Output Power (kW)	3	4	5	6	8	10	12
Max. AC Input/Output Power (kVA)	4.5 / 3.3	6 / 4.4	7.5 / 5.5	9 / 6.6	12 / 8.8	15 / 11	18 / 13.2
Max. AC Output Current (A)	5.3	7	8.5	10.5	13.5	17	21.5
Nominal AC Voltage (V)				230/400			
Nominal AC Frenquency (Hz)				50/60			
Power Factor				1 (-0.8-0.8)			
Current THD (%)				<3%			
AC Load Output (Back-up)							
Nominal Output Power (VA)	3000	4000	5000	6000	8000	10000	12000
Nominal Output Voltage (V)				230/400			
Nominal Output Frequency (Hz)				50/60			
Nominal Output Current (A)	4.4	5.8	7.3	8.7	11.6	14.5	17.4
Peak Output Power	3300VA, 60s	4400VA, 60s	5500VA, 60s	6600VA, 60s	8800VA, 60s	11000VA, 60s	13200VA, 60s
THDV (with linear load)				<3%			
Switching Time (ms)				<10			
Efficiency							
Europe Efficiency				97.50%	:		
Max. Efficiency		98.0	00%		98.	20%	98.30%
Battery Charge/Discharge Efficiency				98.00%			
Protection							
Reverse Polarity Protection				Yes			
Over Current / Voltage Protection				Yes			
Anti-islanding Protection				Yes			
AC Short-ciruit Protection				Yes			
Leakage Current Detection				Yes			
Ground Fault Monitoring				Yes			
Grid Monitoring				Yes			
Enclosure Protect Level				IP65			
General Data							
Dimensions (W x H x D, mm)				558 x 535 x 260 mi	m ————————————————————————————————————		
Weight (kg)				29kg			
Topology Cooling Consent				Transformerless			
Cooling Concept Relative Humidity				Intelligent Fan 0-100%			
Operating Temperature Range (°C)				-25 to 60 °C			
Operating Temperature Range (C) Operating Altitude (m)				<4000			
Noise Emission (dB)				<4000			
Standby Consumption (W)				< 40 < 5			
Display & Communication Interfaces			וכח ובח	RS485, CAN, Wi-F	i GPRS 4G		
Certification & Approvals	NIDCOO	7 G98/G90 ENEC		AS4777.2, VDE-AR		S IEC62100 1 IEC	62109-2
EMC	141/309	, , G50/G55, LNSU		1000-6-2, EN6100	-	,, 1202103-1, IEC	
LIVIC			LINO	1000-0-2, LINU100	0 0-3		

28

27