






Hybrid Inverter-1phase


ARM3/3.6/4/4.6/5/6/8KESL


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110% overload output (1.3times \leq 60s)
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UPS switch over time < 10ms
- Max 18**


The maximum current of a single string module is 18A
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Support dry contact starting generator
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Support 110% three-phase unbalanced output
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Supports a maximum of 16 single-phase units
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Waterproof grade IP66
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Dual back up output
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Normal operation of only-connection PV panels

Technical Specification

	ARM3KETL	ARM3.6KETL	ARM4KETL	ARM4.6KETL	ARM5KETL	ARM6KETL	ARM8KETL
PV INPUT							
Max.DC Input power[W]	4500	5400	6000	6900	7500	9000	12000
Max. DC Input Voltage[V]				500			
MPPT Operating Voltage Range[V]				150-450			
Starting Voltage [V]				125			
Max. Input Current[A]	18			18/18			30/18
Max. Short Circuit Current[A]	22.5			22.5/22.5			37.5/22.5
Number Of MPP Trackers	1			2			2/1
Strings Per MPP Tracker				1			
AC OUTPUT_ GRID							
Rated Output Power[W]	3000	3600	4000	4600	5000	6000	8000
Max. Output Apparent Power[V]	3300	3960	4400	5060	5500	6600	8800
Rated Output Voltage[V]				230			
Rated Output Frequency[Hz]				50/60			
Max. Output Current[A]	15	18	20	22	25	27	40
THDi				< 3%			
Output Power Factor				-0.8 leading~+0.8 lagging			
AC OUTPUT _ TWO BACKUP							
Full Max. Output Power[W]	3000	3600	4000	4600	5000	6000	8000
Max. Output Apparent Power[V,sec]	6000,15	7200,15	8000,15	9200,15	10000,15	10000,15	16000,15
Rated Output Voltage[V]				220/230			
Rated Output Frequency[Hz]				50/60 (±0.2%)			
Backup1 Max. Output Power[W]	3000	3600	4000	4600	5000	6000	8000
Backup2 Max. Output Power[W]	3000	3600	4000	4600	5000	6000	8000
Output Power Factor(off grid)				-0.8 leading~+0.8 lagging			
Output Current Harmonic Distortion				THD<3%(Nonlinear load); THD<1.5%(Linear load)			
Max. Output Current[A]	14	16	18	21	23	27	40
BATTERY PARAMETERS							
Battery Type	Lithium or lead acid battery						
Voltage Range [V]	44-57						
Rated Battery Voltage [V]	48						
Max. Charge/Discharge Current [A]	75	90	100	110	120	120	190
BMS Communication	CAN/RS485						
EFFICIENCY							
Max. Efficiency(PV)	97.6%						
Max. Efficiency(cell)	94.5%						
Euro. Efficiency	97%						
PROTECTION							
PV Input Reverse Polarity Protection	Yes						
PV Insulation Resistance Detection	Yes						
Residual Current Detection	Yes						
Output Over Current Protection	Yes						
Output Short Circuit Protection	Yes						
Output Over Voltage Protection	Yes						
OTHER PARAMETERS							
Operating Temperature Range[°C]	-25~+60						
Storage Temperature Range[°C]	-30~+65						
Humidity Range	0~95%						
Operating Altitude[m]	≤4000						
Ingress Protection	IP66						
Topology	HF isolation (Battery side)						
Noise [dB]	< 25						
Communication	RS485/CAN/WiFi/Ethernnet/4G						
Cooling Method	Natural						
Size (W×H×D)[mm]	424*555*197						427*554*198
Weight [Kg]	19						
Loading data [pc]	384/40HQ 140/20GP						
Warranty	5 years						
STANDARD							
EN62109-1/2,IEC62109-1/2 ,EMC61000,EN50549, IEC61727,IEC62116,IEC61683,VDE 4105/0124							