






# ARM Hybrid Inverter-3Phase


ARM8/10/12KETL


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110% overload output (1.3times  $\leq$  60s)
- 


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

	ARM8KETL	ARM10KETL	ARM12KETL
<b>PV INPUT</b>			
Max.DC Input power[W]	12000	15000	18000
Max. DC Input Voltage[V]		1000	
MPPT Operating Voltage Range[V]		200-800	
Starting Voltage [V]		150	
Max. Input Current[A]	18/18	36/18	36/18
Number Of MPP Trackers		2	
Strings Per MPP Tracker	1	2/1	2/1
<b>AC OUTPUT_ GRID</b>			
Rated Output Power[W]	8000	10000	12000
Max. Output Apparent Power[V]	8800	11000	13200
Rated Output Voltage[V]		400	
Rated Output Frequency[Hz]		50/60	
Max. Output Current[A]	13.3	16.7	20
Output Power Factor		-0.8 leading~+0.8 lagging	
<b>AC OUTPUT _ TWO BACKUP</b>			
Full Max. Output Power[W]	8000	10000	12000
Max. Output Apparent Power[V,sec]	16000,15	20000,15	24000,15
Rated Output Voltage[V]		400(±2%)	
Rated Output Frequency[Hz]		50/60 ( ±0.2% )	
Backup1 Max. Output Power[W]	8000	10000	12000
Backup2 Max. Output Power[W]	8000	10000	12000
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]	13.3	16.7	20
<b>EFFICIENCY</b>			
Max. Efficiency (PV)		98%	
Max. Efficiency (Battery)		94.5%	
Euro. Efficiency		97.5%	
<b>BATTERY PARAMETERS</b>			
Battery Type		Lithium or lead acid battery	
Voltage Range [V]		44-60	
Rated Battery Voltage [V]		48	
Max. Charge/Discharge Current [A]	190	210	240
BMS Communication		CAN/RS485	
<b>PROTECTION</b>			
DC Reverse-Polarity Protection		Yes	
Short Circuit Protection Output		Yes	
Over Current Protection Output		Yes	
Over Voltage Protection		Yes	
Insulation Resistance Monitoring		Yes	
Residual Current Detection Surge Protection		Yes	
Grid Monitoring		Yes	
Islanding Protection		Yes	
Temperature Protection		Yes	
Integrated DC Switch		Yes	
<b>OTHER PARAMETERS</b>			
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/Ethemnet/4G	
Cooling Method		Natural	
Size (W×H×D)[mm]		475*683*256	
Weight [Kg]		38	
Loading data [pc]		384/40HQ 140/20GP	
Warranty		5 years	
<b>STANDARD</b>			
EN62109-1/2,IEC62109-1/2 ,EMC61000,EN50549, IEC61727,IEC62116,IEC61683,VDE 4105/0124			