

# ME 5K~20KTL-3PH

5 / 6 / 8 / 10 / 15 / 20 kW

## AC-COUPLED ENERGY STORAGE INVERTER



### Product advantages

- Max. battery charge / discharge efficiency up to 97.8%
- Off-grid and on-grid output can be connected to unbalanced load
- Wide battery voltage range (180-800 V)
- Flexible switching between grid-tied mode and energy storage mode
- Compact design with functional LCD



Model	ME 5KTL-3PH	ME 6KTL-3PH	ME 8KTL-3PH	ME 10KTL-3PH	ME 15KTL-3PH	ME 20KTL-3PH
<b>AC output (on-grid )</b>						
Rated output power	5000W	6000W	8000W	10000W	15000W	20000W
Rated output current	7.2A	8.7A	11.6A	14.5A	21.7A	29.0A
Rated grid voltage	3/N/PE, 230/400Vac					
Rated grid frequency	50/60Hz					
Max. output apparent power	5500VA	6600VA	8800VA	11000VA	16500VA	22000VA
Max. output current	8A	10A	13A	16A	24A	32A
THDi	<3%					
Power factor	1 default (+/-0.8 adjustable)					
<b>Battery parameters</b>						
Battery type	Lithium-ion& Lead-acid[3]					
Battery voltage range	180V-800V					
Number of battery input channels	1	1	1	2	2	2
Max. charge/discharge power	5000W	6000W	8000W	10000W	15000W	20000W
Max. charge/discharge current	25A	25A	25A	50A(25A/25A)	50A(25A/25A)	50A(25A/25A)
BMS communication mode	CAN, RS485					
<b>AC output (off-grid)</b>						
Rated output power	5000W	6000W	8000W	10000W	15000W	20000W
Rated output current	7.2A	8.7A	11.6A	14.5A	21.7A	29.0A
Rated output voltage	3/N/PE, 230/400Vac					
Rated output frequency	50/60Hz					
Max. output apparent power	5500VA	6600VA	8800VA	11000VA	16500VA	22000VA
Peak output apparent power, time	10000VA, 60s	12000VA, 60s	16000VA, 60s	20000VA, 60s	22000VA, 60s	22000VA, 60s
Max. output current	8A	10A	13A	16A	24A	32A
THDv (@ linear load)	<3%					
Switching time	<10ms					
<b>Efficiency</b>						
Max. efficiency of charging [1]	97.6%	97.6%	97.6%	97.8%	97.8%	97.8%
Max. efficiency of discharging	97.6%	97.6%	97.6%	97.8%	97.8%	97.8%
<b>Protection</b>						
DC switch	Yes					
PV reverse connection protection	Yes					
Battery reverse connection protection	Yes					
Output short circuit protection	Yes					
Output overcurrent protection	Yes					
Output overvoltage protection	Yes					
Insulation impedance detection	Yes					
Residual current detection	Yes					
Anti-island protection	Yes					
Surge protection	AC: Type II					
<b>General parameters</b>						
Operating temperature range	-30 C ~60 C					
Relative humidity range	5%-95%					
Max. operating altitude	<4000m					
Standby self-consumption [2]	<20W					
Topology	Transformerless					
Installation method	Wall-mounted					
Degree of protection	IP65					
Dimensions (W*H*D)	586.6*515*261.2mm					
Cooling mode	Natural	Natural	Natural	Forced airflow		
Weight	30kg	30kg	30kg	34kg	Forced airflow	Forced airflow
Communication	RS485/CAN/WIFI, Optional: Ethernet/4G				34kg	34kg
Display	LCD & Bluetooth+APP					
Standard	N61000-1, EN61000-2, EN61000-3, EN61000-4, EN61000-4-16, EN61000-4-18, EN61000-4-29, IEC62109-1, IEC62109-2, NB-T32004/IEC62040-1, AS/NZS 4777, VDE V 0124-100, V0126-1-1, VDE-AR-N 4105, CEI 0-21/CEI 0-16, EN50438/EN50549, G83/G59/G98/G99, UTE C15-712-1, UNE206 007-1					

[1] Battery-AC maximum efficiency of battery charge and discharge [2] Standby loss at rated input voltage [3] Please refer to document "SOFAR inverter Model compatible battery list"  
\* All specifications are subject to change without notice.