

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
AC output (on-grid)						
Rated output power	5000W	6000W	8000W	10000W	15000W	20000W
Rated apparent power	5000VA	6000VA	8000VA	10000VA	15000VA	20000VA
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. current output to grid	8A	10A	13A	16A	24A	32A
Max. AC current from grid	15A	17A	24A	29A	44A	58A
Output Inrush current	100A/1μs					
Output fault current	80A/5μs					
Output overcurrent protection (RMS)	10A	12A	8800VA	18A	26A	34A
Output overcurrent protection (MAX)	20.4A	22.5A	33.1A	40.7A	61.1A	81.5A
THDi	<3%					
Power factor	1 default (+/-0.8 adjustable)					
Battery parameters						
Battery type [3]	Lithium-ion & Lead-acid					
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					
AC output (off-grid)						
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					
Efficiency						
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%
Protection						
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					
General parameters						
Operating temperature range	-30 C ~60 C					
Relative humidity range	5%-95%					
Max. operating altitude	<2000m					
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	Forced airflow	Forced airflow
Weight	30kg	30kg	30kg	34kg	34kg	34kg
Communication	RS485/CAN/WiFi, Optional:Ethernet/4G					
Display	LCD & Bluetooth+APP					
Standard	EN61000-6-2, EN61000-6-3, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12, IEC62109-1, IEC62109-2, EN62040-1, 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, 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.