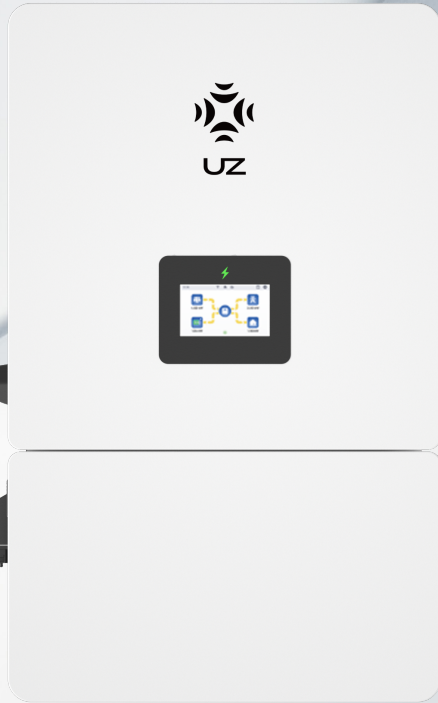


IT Series

Three Phase Hybrid Series



Excellent Performance

- 3 MPPTs with Maximum PV Input Power of 30 kW
- Supports High-Power Modules with 20A PV Input Current
- Maximum Charging and Discharging Current: 380 A
- Maximum Grid Passthrough Current: 45 A



Safety & Reliability

- IP65: Indoor or outdoor installation
- MC4 PV connectors, convenient for installation
- Multiple built-in protections, with optional AFCI 2.0/RSD/Battery breaker
- Seamless transition to backup mode, for protection against power outages



High Flexibility

- Support 40-64 V Lithium or Lead-acid battery
- 3-Phase unbalanced output: Increase the self-use rate of solar energy
- Support smart load/generator/AC Coupling
- Max. 9 units parallel for on-gird and off-gird operation



Intelligent Maintenance

- 4.3" LCD color touchscreen, easy to operate
- 6 time periods for battery charging/discharging
- Intelligent Management, local & remote monitoring

Model	SEL-6KTH-150DE	SEL-8KTH-200DE	SEL-10KTH-250TE	SEL-12KTH-300TE	SEL-15KTH-350TE	SEL-20KTH-380TE
Efficiency						
Max. Efficiency			97.60%			
Eur. Efficiency			97.00%			
Input (PV)						
Max. PV Access Power			40,000 W			
Max. PV Usable Power		20,000 W	20,000 W	30,000 W	30,000 W	30,000 W
Max. PV Input Voltage			1000 V			
Start-up Voltage			120 V			
MPPT Operating Voltage Range			160 V-980 V			
Max. Input Current per MPPT		20 A / 20 A	20 A / 20 A	20 A / 20 A / 20 A	20 A / 20 A / 20 A	20 A / 20 A / 20 A
Max. Short Circuit Current per MPPT		30 A / 30 A	30 A / 30 A	30 A / 30 A / 30 A	30 A / 30 A / 30 A	30 A / 30 A / 30 A
Nos. of MPPT		2	2	3	3	3
String per MPPT		1/1	1/1	1/1/1	1/1/1	1/1/1
Input/Output (BAT)						
Battery Type			Lithium-ion/Lead-acid			
No.Of Battery Input			2 *			
Battery Rated Voltage			48 V			
Battery Voltage Range			40 V-60 V			
Max. Charge/Discharge Current		380 A / 150 A	380 A / 200 A	380 A / 250 A	380 A / 300 A	380 A / 350 A
Max. Charge/Discharge Power		20,000 W / 7,200 W	20,000 W / 9,600 W	20,000 W / 12,000 W	20,000 W / 14,500 W	20,000 W / 20,000 W
Input/Output (Grid)						
Nominal AC Output Power		6,000 W	8,000 W	10,000 W	12,000 W	15,000 W
Max. AC Output Apparent Power		6,600 VA	8,800 VA	11,000 VA	13,200 VA	16,500 VA
Nominal AC Output Current		3*9.1A/3*8.7A/3*8.3A	3*12.1A/3*11.6A/3*11.1A	3*15.2A/3*14.5A/3*13.9A	3*18.2A/3*17.4A/3*16.7A	3*22.7A/3*21.7A/3*20.8A
Max. AC Output Current		3*10 A	3*13.3 A	3*16.7 A	3*20 A	3*25 A
Max. Single Phase Power		3,200 W	4,267 W	5,333 W	6,400 W	8,000 W
Max. Continuous AC Passthrough (grid to load)			45 A			
Nominal Grid Voltage			220V/380V; 230V/400V, 240V/415V 3W+N+PE			
Nominal Grid Frequency			50 Hz / 60 Hz			
Power Factor			> 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)			
THDi			<3% @rated power			
Output (Back up)						
Nominal AC Output Power		6,000W	8,000W	10,000W	12,000W	15,000W
Max. AC Output Apparent Power		6,600VA	8,800VA	11,000VA	13,200VA	16,500VA
Nominal AC Output Current		3*9.1A/3*8.7A/3*8.3A	3*12.1A/3*11.6A/3*11.1A	3*15.2A/3*14.5A/3*13.9A	3*18.2A/3*17.4A/3*16.7A	3*22.7A/3*21.7A/3*20.8A
Max. AC Output Current		3*10 A	3*13.3 A	3*16.7 A	3*20 A	3*25 A
Peak Output Apparent Power		200%, 10 s	200%, 10 s	200%, 10 s	200%, 10 s	150%, 10 s
Nominal Grid Voltage			220V/380V; 230V/400V, 240V/415V 3W+N+PE			
Nominal Grid Frequency			50 Hz/60 Hz			
Transfer Time			<10ms (Typical)			
THDV			<3% @100% R Load			
Input (Generator)						
Max. Input Power			30,000 W			
Protection						
Protection Category			Class I			
DC Switch			Yes			
Anti-islanding Protection			Yes			
AC Overcurrent Protection			Yes			
DC Reverse Protection			Yes			
Overvoltage Protection			Yes			
Surge Arrester			DC Type II, AC Type II			
Insulation Resistance Detection			Yes			
Leakage Current Protection			Yes			
Built-in Battery Breaker			400A, Optional			
AFCI 2.0/RSD			Optional			
General						
Max. Operation Altitude			4000m (>2000m derating)			
Ingress Protection Degree			IP65			
Operating Temperature Range			-25 °C~60 °C (>45 °C derating)			
Relative Humidity			0~100%			
Cooling Method			Smart Cooling			
Mounting			Wall bracket			
Dimensions (W*H*D)			460x742x266 mm			
Weight			50 Kg			
HMI & COM						
Display			LED+LCD			
Communication Interface			RS485/CAN (for BMS), RS485 (for Meter), DRMs, CAN (for parallel), 2*DO, 2*DI, USB (for Wi-Fi/LAN,Optional)			
Certification			IEC/EN 62109-1/-2			
Safety						
EMC			IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 62920			
Grid			IEC 61727/62116, IEC 60068, IEC 61683, NRS 097-2-1, EN 50549-1/10			
Warranty			5 Years/10 Years (optional)			
Remarks: · The range of output voltage and frequency may vary depending on different grid codes. · Specifications are subject to change without advanced notice. *: if only one set of terminals is used, the max battery charge/discharge will be limited to 200 A						