

Solavita
A SKYWORTH Company

SV 40/50/60 kW

Three-phase On-grid Inverter



MODEL

SV040KTL-T1-EM36 | SV040KTL-T1-EM48
SV050KTL-T1-EM48 | SV060KTL-T1-EM48



150% oversizing



Compatible with 600W+ modules



Optional PID recovery



Support DC Arc Protection



Intelligent I-V curve scanning



String Detection



C5 anti-corrosion grade

Model	SV040KTL-T1-EM36	SV040KTL-T1-EM48	SV050KTL-T1-EM48	SV060KTL-T1-EM48
DC Input				
Max. Recommended Input Power[W]	60000	60000	75000	90000
Max. Input Voltage [V]			1100	
MPPT Voltage Range [V]			180~1000	
Rated Input Voltage [V]			600	
Start-up Voltage [V]			200	
No. of MPPT Trackers	3		4	
No. of PV Strings per MPPT	2		2	
Max. Input Current per MPPT [A]	40		40	
Max. Short Circuit Current per MPPT [A]	50		50	
AC Output				
Rated Output Power [W]	40000	40000	50000	60000
Max. Output Apparent Power [VA]	44000	44000	55000	66000
Max. Output Current [A]	66	66	84	100
Rated Grid Voltage [V]			3L/N/PE; 220/380, 230/400	
Rated Grid Frequency [Hz]			50/60	
Power Factor [cos φ]			1 (+/-0.8, adjustable)	
Efficiency				
Max. Efficiency			98.80%	
Euro Efficiency			98.30%	
Protection				
DC Switch			Integrated	
Insulation Resistance Detection			Integrated	
Input Reverse Polarity Protection			Integrated	
Anti-island Protection			Integrated	
Residual Current Monitoring			Integrated	
AC Overcurrent Protection			Integrated	
AC Short-circuit Protection			Integrated	
String Detection			Integrated	
DC Surge Protection			Integrated (Type II)	
AC Surge Protection			Integrated (Type II)	
AFCI			Optional	
IV Curve Scanning			Optional	
PID Recovery			Optional	
General data				
Dimensions (W*H*D) [mm]			623*523*235	
Weight [Kg]			35.9	
Display			LED& Bluetooth+APP	
Communication			WiFi/LAN/RS485/4G (Optional)	
Operating Temperature Range [°C]			-30 ~ +60	
Relative Humidity			0 ~ 100%	
Operation Altitude [m]			≤ 4000(>3000 derating)	
Topology			Transformerless	
Type of Cooling			Smart fan-cooling	
Protection Class			IP66	