

SP-40K

SP Series String Solar Inverter



More power generation

Max. efficiency 99%, Euro efficiency 96%
4 MPPTs for tracking maximum PV power



Low system cost

Power line communication save cable cost and civil work
High DC/AC ratio for lower LCOE



High reliability

Natural cooling without fan for harsh environment and long life
String monitoring function, easy for quick trouble shooting

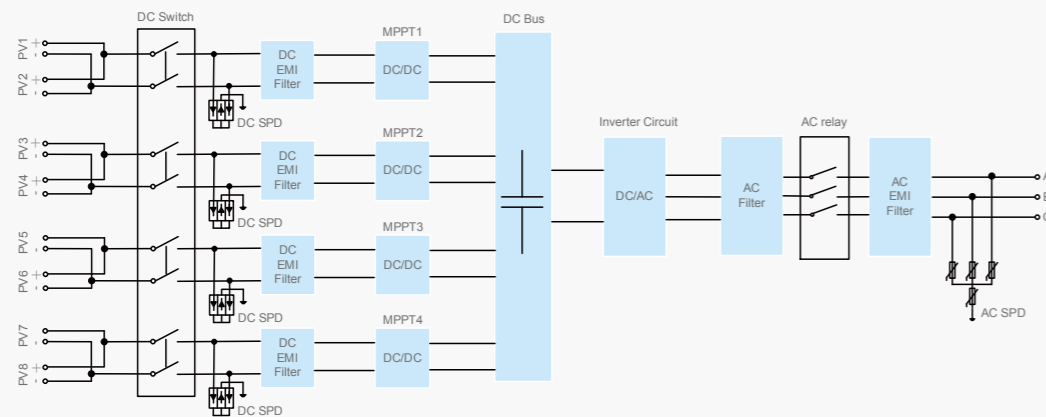


Grid friendly

Active power derating and reactive power adjustable
Low harmonics and fast response for grid regulation



Circuit



Input (DC)	SP-40K
Max. PV input voltage	1100V
Max. input current	88A
Rated input voltage	620V
MPP voltage range	200~1000V
MPP voltage range for nominal power	480~800V
Number of MPPT trackers	4
Max. number of PV strings per MPPT	2
Output (AC)	SP-40K
Rated output power	38kW
Max. output power	42kW
Rated grid voltage	400V
Grid voltage range	340~440V
Max. output current	60.8A
Rated grid frequency / range	50 Hz/45~55Hz, 60Hz/55~65Hz
Output current harmonic(at nominal power)	<3%
Power factor at nominal power / range	>0.99/0.8 lagging to 0.8 leading
Protection	SP-40K
DC reverse connection protection	Circuit breaker
Overvoltage protection	DC Type II/AC Type II
Leakege current protection	Yes
Grid monitoring	Yes
Insulation monitoring	Yes
Anti-island protection	Yes
Anti-PID function	Optional
Efficiency	SP-40K
Max. efficiency	99%
EU efficiency	98.60%
General Data	SP-40K
Self-consuming in standby	<3W
Protection level	IP65
Noise	<35dB
Temperature ⁽¹⁾	-30 C ~ +60 C
Cooling mode	Natural cooling
Altitude at full load ⁽²⁾	3000m
Communication port	Standard:RS485, Optional:GPRS
Certificates and approvals (more available on request)	IEC 62109, IEC 61727, IEC 61683, IEC 62116, IEC 60068, IEC 61000, EN 50530
Dimensions (W×H×D)	910×572×285mm
Weight	58kg

(1) When ambient temperature is under -30 C , the inverter needs to be configured with heater(optional)
(2) When above 3000m, the inverter begins derating, contact us for derating parameters