

Three Phase String Inverter

SUN- 70 / 75 / 80 / 90 / 100 / 110 K-G03



Max. 6 MPPT trackers, Max. efficiency up to 98.7%



Zero export application, VSG application



String intelligent monitoring (optional)



DC/AC ratio upto 1.5



Type II DC/AC SPD



Anti-PID function (Optional)

Deye

Clean Power For You

Model	SUN-70K-G03	SUN-75K-G03	SUN-80K-G03	SUN-90K-G03	SUN-100K-G03	SUN-110K-G03	
Input Side							
Max. DC Input Power (kW)	105	112.5	120	135	150	150	
Max. DC Input Voltage (V)						1000	1100
Start-up DC Input Voltage (V)						250	
MPPT Operating Range (V)						200~850	
Max. DC Input Current (A)						40+40+40+40+40+40	
Number of MPPT / Strings per MPPT						6 / 4	
Output Side							
Rated Output Power (kW)	70	75	80	90	100	110	
Max. Active Power (kW)	77	82.5	88	99	110	121	
Rated AC Grid Voltage (V)						220 / 380, 230 / 400	
AC Grid Voltage Range (V)						277Vac~460Vac (this may vary with grid standards)	
Rated Grid Frequency (Hz)						50 / 60 (Optional)	
Operating Phase						Three phase	
Rated AC Grid Output Current (A)	101.5	108.7	115.9	130.4	144.9	159.4	
Max. AC Output Current (A)	111.6	119.6	127.5	143.5	159.4	175.4	
Output Power Factor						>0.99	
Grid Current THD						<3%	
DC Injection Current (mA)						<0.5%	
Grid Frequency Range						47~52 or 57~62 (Optionl)	
Efficiency							
Max. Efficiency						98.7%	
Euro Efficiency						98.3%	
MPPT Efficiency						>99%	
Protection							
DC Reverse-Polarity Protection						Yes	
AC Short Circuit Protection						Yes	
AC Output Overcurrent Protection						Yes	
Output Overvoltage Protection						Yes	
Insulation Resistance Protection						Yes	
Ground Fault Monitoring						Yes	
Anti-islanding Protection						Yes	
Temperature Protection						Yes	
Integrated DC Switch						Yes	
Remote software upload						Yes	
Remote change of operating parameters						Yes	
Surge protection						DC Type II / AC Type II	
General Data							
Size (mm)						838W×568H×323D	
Weight (kg)						73.7	
Topology						Transformerless	
Internal Consumption						<1W (Night)	
Running Temperature						-25~65°C	
Ingress Protection						IP65	
Noise Emission (Typical)						<55 dB	
Cooling Concept						Smart cooling	
Max. Operating Altitude Without Derating						2000m	
Designed Lifetime						>20 years	
Grid Connection Standard						IEC61727, IEC62116, IEC60068, IEC61683, VDE0126-1-1	
Operating Surroundings Humidity						0-100%	
Safety EMC / Standard						IEC62109-1/-2, IEC61000-6-2, IEC61000-6-4, IEC61000-3-11, IEC61000-3-12	
Features							
DC Connection						MC-4 mateable	
AC Connection						IP65 rated plug	
Display						LCD 240 × 160	
Interface						RS485/RS232/Wifi/LAN	