



SP G7-HY



Efficient Inversion, Smart Optimization



Multi-Protection Design for Safe and Stable Operation



Remote Monitoring, Real-Time Anomaly Alerts



Tested in Severe Conditions,Ready for Extreme Weather & Environment



Real-time revenue outlook, remote upgrade services



Efficient Installation, Smart Layout for Maximum ROI



SDT G4 /HY

Electrical Specification

MODEL	75K	80K	90K	100K
Input DC				
Max input voltage	1000 V			
Rated voltage	600 V			
Start-up voltage	195 V			
MPPT voltage range	180 - 1000 V			
Max input current	8 × 32 A	9 × 32 A	10 × 32 A	11 × 32 A
Max short circuit current	8 × 50 A	9 × 50 A	10 × 50 A	11 × 50 A
MPPT number / Max input strings number	8 / 16	9 / 18	10 / 20	11 / 22
Output AC				
Rated output power	75 kW	80 kW	90 kW	100 kW
Max apparent output power	75 kVA	80 kVA	90 kVA	100 kVA
Max output power	75 kW	80 kW	90 kW	100 kW
Rated grid voltage	3Φ/PE, 480 V			
Rated grid frequency	60 Hz			
Max output current	90.2 A	96.2 A	108.3 A	120.3 A
Power factor	> 0.99 (0.8 leading ~ 0.8 lagging)			
THDi	< 3%			

Efficiency

Max efficiency	98.50%	98.60%
CEC efficiency	98.10%	97.90%

Protection

DC reverse-polarity protection	Yes
Surge protection	DC Type II / AC Type II
Ground fault monitoring	Yes
Anti-islanding protection	Yes
Strings monitoring	Yes
I/V Curve scanning	Yes
Rapid shutdown	Yes
Integrated AFCI	Yes
Integrated PID recovery	Yes
AC switch	

General Data

Dimensions (W x H x D)	1050 × 554 × 338 mm
Weight	86 kgs
Topology	Transformerless
Self-consumption (night)	<2W
Relative humidity	0-100%
Operating ambient temperature range	-30° C to 60°C
Ingress protection	TYPE 4X
Noise emission (typical)	<55 dB(A)
Cooling concept	Intelligent fan-cooling
Max operation altitude	13,120 ft(4000 m)
Compliance	UL1741SB, IEEE 1547-2018, UL1699B, UL1998. FCC Part15 ClassB, California Rule 21, Heco Rule 14H, NEC 690.12-2020, CAN/CSA C22.2107.1-1

Features

DC connection	MC4 connector
AC connection	OT terminal (max. 350 MCM)
Display	LCD
Communication	RS485, Optional: Wi-Fi, Cellular



Specifications are subject to change without prior notice!



www.honorsolar.cn



sales@honorsolar.cn

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