S5-GC(75-100)K-US

Solis Three Phase US Inverters

>> Models:

S5-GC75K-US S5-GC90K-US S5-GC80K-US S5-GC100K-US





Ordering: S5-GC(75-100)K-US

- APST (APS MLRSD Transmitter)
- RSS (Tigo MLRSD Transmitter)



Efficient

- 8/9/10 MPPTs, max. efficiency 98.8% (CEC efficiency 98.3%)
- > 1.5 DC/AC ratio
- String current up to 16A for higher capacity modules

Smart

- Intelligent string monitoring, smart I-V curve scan
- Remote firmware upgrade with simple operation*

Safe

- Type 4X, C5 Anti-Corrosion Level
- UL 1741 SA and SB
- Integrated nighttime PID recovery for optimal module performance
- AFCI protection, proactively reduces fire risk
- High quality components from globally recognized suppliers

Economic

- DC side supports "Y" connector
- Support aluminium wire to reduce cost

DATASHEET	S5-GC(75-100)K-US				
Models	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	
Max. short circuit current	8*50 A	9*50 A		10*50 A	
MPPT number/Max. input strings number	8/16	9/18		10/20	
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	70		Þ/PE, 480 V	100 111	
Rated grid frequency	60 Hz				
Max. output current	90.2 A	96.2 A	108.3 A	120.3 A	
Power Factor	30.27		eading - 0.8 lagging)	120.071	
THDi	<3%				
Efficiency			370		
Max. efficiency	98.7%		98.8%		
CEC efficiency	98.3%			98.2%	
Protection	9	0.5 /0		30.270	
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				
Integrated PID recovery	Yes Yes				
Rapid shutdown	Yes				
	Yes				
Integrated AFCI (DC arc-fault circuit protection)	Yes Yes				
AC switch General Data			res		
Dimensions (W*H*D)		41.0*22.2*12.6	in (1005*507*3445 mm)		
	41.9*22.3*13.6 in (1065*567*344.5 mm) 187 lbs (85 kgs)				
Weight	187 (DS (85 kgs) Transformerless				
Topology Self-consumption (night)					
	<2 W				
Relative humidity	0-100%				
Operating ambient temperature range	-22°F to 140°F (-30°C ~ +60°C)				
Storage environment	-40°F to 176°F (-40°C to 80°C)				
Ingress protection	TYPE 4X				
Cooling concept	Intelligent redundant fan-cooling				
Max. operation altitude	13,120 ft (4000 m)				
Compliance	UL1741SB, UL1741SA, 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		MC	4 connector		
AC connection	OT Terminal (max. 350 MCM)				

LCD

RS485, Ethernet, Optional: Wi-Fi, Cellular

Communication Ordering guidelines:

Display