

SYU Series

320KW-350KW



High Efficiency

- Up to 99.03% efficiency
- 500~1500Vdc MPPT range
- Max. 75A DC input per MPPT, optimized for high-power solar panel



Assured Safety

- 24 hours monitoring
- AFCI support (optional)
- IP66 protection degree
- Effective Anti-PID Protection*
- Optional Type I+II SPD on DC side & Type II SPD on AC side



Intelligent Design

- IV curve scan
- AC terminal temperature detection
- Night-time SVG voltage regulation support



Flexible Adaptability

- 6 MPPTs, 5 strings per MPPT for precise power
- Power line communication (PLC) (Optional)*

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*Feature to be upgraded in the future. (T&C Apply)

Technical Specifications



Model	SYU320K	SYU333K	SYU350K
DC Input			
DC Input Watt	416000W	432900W	455000W
Max. DC input voltage	1500 V		
Nominal DCinput voltage	1080 V		
Operating voltage range	550 ~ 1500 V		
MPPT voltage range	500 ~ 1500 V		
Start-up voltage	550 V		
No. of MPP trackers/Strings per MPP tracker	6 / 5		
Max. input current per MPPT	75 A		
Max. input short circuit current per MPPT	115 A		
AC OUTPUT			
AC output power	320KW@50°C	320KW@50°C	320KW@50°C
Max. output apparent power	320 kVA	333 kVA	352 kVA
Max. output continuous current	231 A	240.3 A	254 A
Max. short circuit current	418.9 A	418.9 A	418.9 A
Nominal AC voltage	3 / PE, 800 V		
Nominal AC frequency	50 Hz / 60 Hz		
AC frequency range	50 ± 5 Hz / 60 ± 5 Hz		
Adjustable Power Factor range	~ 1 (0.8 lagging to 0.8 leading)		
THDi (rated power)	< 3%		
EFFICIENCY			
Max. efficiency	99.03%		
European efficiency	98.80%		
ENVIRONMENT LIMIT			
Ingress protection	IP66		
Operating ambient temperature range	-30 ~ 60°C		
Max. operating altitude	5000m (derating above 4000m)		
Relative humidity	0 ~ 100% RH (condensing)		
Overvoltage Category	Mains: III, PV: II		
PROTECTION			
Protections	Over / under voltage protection, DC isolation protection, DC reverse-polarity protection, Grid monitoring, DC injection monitoring, Back feed current monitoring, Residual current detection, Over temperature protection		
Active anti-islanding method	Frequency shift		
Surge protection (DC / AC)	Type II (Optional: Type I + II)		
Arc-fault circuit interrupter (AFCI)	Optional		
AC auxiliary power supply (APS)	Built-in		
Anti-PID	External		
GENERAL			
Dimensions (W × H × D)	1225 × 825.5 × 369.1 mm		
Net weight	130 kg		
Cooling concept	Smart cooling		
Communication interfaces	Modbus RTU/TCP, Sunspec, 2030.5, (Optional: WiFi / LAN / 4G / PLC)		
Topology	Non-isolated		
Certificates and approvals	IEC62109-2:2011,IEC62109-1:2010,IEC 61727:2004,IEC 62116:2014,IEC 61000-6-2:2019, IEC 61000-6-4:2019,IEC 62920:2017+A1:2021,EN55011:2016+A2:2021,IEC 60068-2-1:2007, IEC 60068-2-2:2007,IEC 60068-2-14:2009,IEC 60068-2-27:2008,IEC 60068-2-30:2005,IEC 60068-2-64:2008,EN 50530		
AMBIENT CONDITIONS			
Warranty	10 Years		