



Safety first
Fuse free design



Intelligent
8 strings intelligent
monitoring

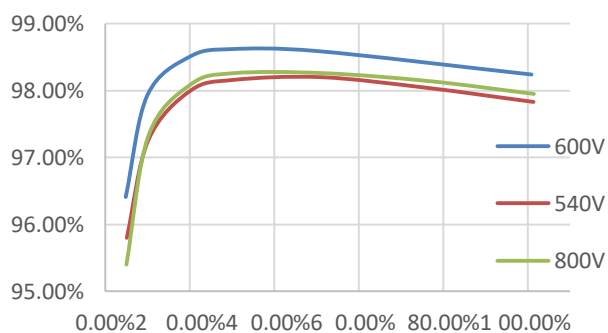


Efficient
Max. efficiency
98.7%



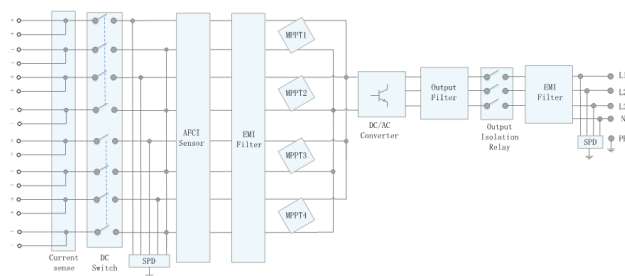
Reliable
Surge arresters
for DC & AC

Efficiency Curve



IS-INV-29900-40000 3PH29.9/36/40KTL

Circuit Diagram



**EXTENDED
WARRANTY**



10 year warranty
(parts & labour)



**FREE 2 year
warranty extension**
(parts only)

Technical Specifications

Model	IS-INV-29900-3PH		IS-INV-40000-3PH	
Efficiency				
Max. efficiency			98.7 %	
European weighted efficiency			98.4 %	
Input (PV)				
Recommended max. DC input power	44,850W		60,000W	
Max. input voltage			1,100 V	
Start-up up voltage			200 V	
MPPT operating voltage range			200 V - 1000 V	
Rated input voltage			600 V	
Max. input current per MPPT			27 A	
Max. short-circuit current			40 A	
Number of MPP trackers			4	
Max. numberof inputs			8	
Input (DC Battery)				
Compatible Battery			iStore ESS Battery 5 kWh - 30 kWh	
Operating voltage range			600 ~ 980 Vdc	
Max. operating current			16.7 A	
Max. charge power			10,000 W	
Max. discharge power	5,000 W		6,000 W	
Max. number of connected batteries			2	
Output				
Grid connection			Three phase	
Rated AC Active power	29,000 W		40,000 W	
Rated AC Apparent power	29,000 VA		40,000 VA	
Rated output voltage			230 Vac / 400 Vac, 3W/N+PE	
Rated AC grid frequency			50 Hz / 60 Hz	
Rated Output Current	43.2 A		57.8 A	
Max. output current	43.2 A		63.8 A	
Adjustable power factor range			0.8 LG ... 0.8 LD	
Max. total harmonic distortion			≤ 3 %	
Protection & Features				
Input-side Disconnection Device			Yes	
Anti-islanding Protection			Yes (AFD)	
Protection Class			1	
AC Overcurrent Protection			Yes	
DC Reverse-polarity Protection			Yes	
PV-array String Fault Monitoring			Yes	
DC Surge Arrester	Yes, Compatible with type II protection class according to EN/IEC 61643-11			
AC Surge Arrester	Yes, Compatible with type II protection class according to EN/IEC 61643-11			
DC Insulation Resistance Detection			Yes	
Arc Fault Protection			Yes	
Ripple Receiver Control			Yes	
Integrated PID Recovery 3			Yes	
General Data				
Operating temperature range	-25 ~ +60 °C (Derating above 45 °C @ Rated output power)			
Relative operating humidity			0 %RH ~ 100 %RH	
Max. Operating Altitude			0 - 4,000 m	
Nosie Level			< 46 dB	
Protection Degree			IP 66	
Cooling Method			Natural Convection	
Weight			43 kg (94.8 lb)	
Dimension (incl. mounting bracket)			640 x 530 x 270 mm	
DC Connector			Staubli MC4	
AC Connector			Waterproof Connector + OT/DT Terminal	
Nighttime Power Consumption			≤5.5W	
Topology			Transformerless	
Country of manufacture			China	
Communication				
Display			LED Indicators, Integrated WLAN + iStorehome APP	
RS485			Yes	
Smart Dongle			WLAN/Ethernet via Smart IS-Dongle-WLAN	
Monitoring BUS (MBUS)			Yes (Isolation Transformer required)	
Standard Compliance (more available upon request)				
Safety			IEC 62109-1, IEC 62109 -2	
Grid connection standards			AS/NZS 4777.2_2020	

1. The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter.

2. Any DC input voltage beyond the operating voltage range may result in inverter improper operating.

3. IS-INV-29900/40000 3PH raises potential between PV- and ground to above zero through integrated PID recovery function to recover module degradation from PID. Supported module types include: P-type (mono, poly), N-type (nPERT, HIT)