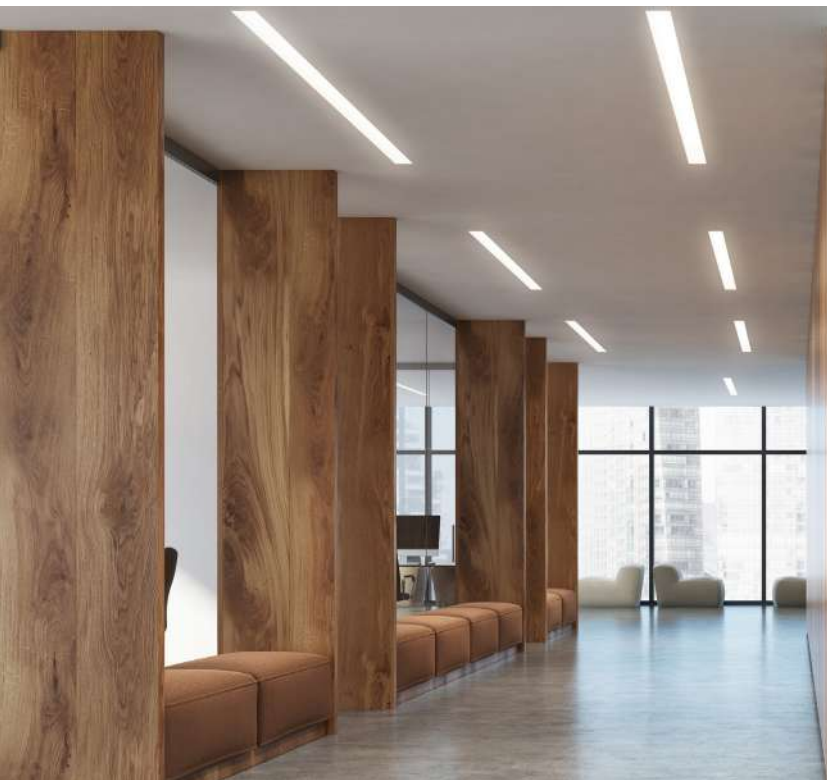




Safety first
Fuse free design



Intelligent
8 strings intelligent
monitoring

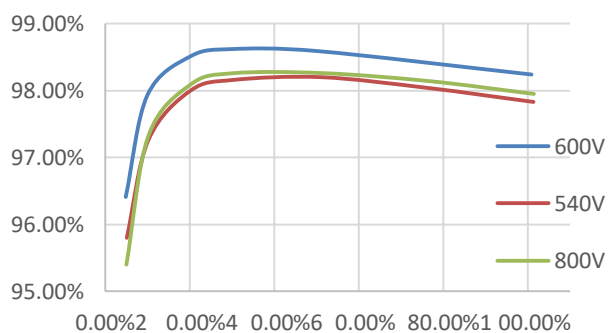


Efficient
Max. efficiency
98.7%



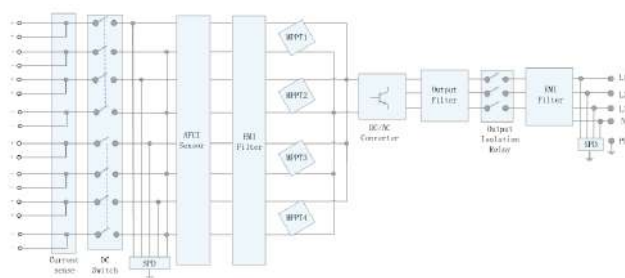
Reliable
Surge arresters
for DC & AC

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)				
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	26 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 & Feature				
Input-side Disconnection Device	Yes			
Anti-islanding Protection	Yes			
AC Overcurrent Protection	Yes			
DC Reverse-polarity Protection	Yes			
PV-array String Fault Monitoring	Yes			
DC Surge Arrester	Yes			
AC Surge Arrester	Yes			
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)