

THREE PHASE INVERTER

PHINV-12KTL-TH



Providing strong protection functions via big data, cloud computing, and edge computing



Providing a one-stop V2H solution that includes green energy generation, storage, and consumption.



Supporting whole home backup and various EMS on-grid operation.

MODLE	PHINV-12KTL-TH
Efficiency	
Peak efficiency	98.50%
EU efficiency	97.50%
Input (DC Battery)	
Compatible battery	7 ~ 40 kWh
Max. charge/ discharge power	10 kW
Operating voltage range	600 ~ 900 V
Max. operating current	16.7 A
Input (PV)	
Max. input voltage	1000 V
MPPT operating voltage range	140 ~ 980 V
Max. input current per MPPT	13.5 A
Number of MPP trackers	2
AC Port (On-grid Mode)	
Max. output power	12 kVA
Grid voltage	220Vac / 380Vac, 230Vac / 400Vac,L1+L2+L3+N+PE
Max. AC current	18.4 A
Frequency range	45 ~65 Hz
AC Port (Off-grid Mode)	
Max. output power	3.3 kVA (per phase)
AC output voltage	220 V / 230 V
Max. AC current	18.4 A
Frequency	50 Hz
Max. allowed crest factor	2.5
General Parameter	
Isolation type	Transformer-less
Operating temperature range	-25 ~ 60 ° C (Derating above 45° C)
Humidity	0 ~ 95 %
Operating altitude	≤ 4000 m (Derating above 2000m)
Audible noise	≤ 45 dB (A) @ 1m Front
Communication & Display	
Network Interface	WIFI (standard), 4G (optional)
Protocol (with Backend)	TCP + SSL
Protocol (with PCS)	RS485
Indicator	3 LEDS
Human machine interface (HMI)	APP, Web portal
Mechanical	
Dimension (W x H x D)	485 × 400 × 172 mm
Weight	19 kg
IP Grade	IP 65
Standards	
Standards and compliance	IEC62109-1/-2, NB/T32004; VDE-AR-N-4105, NB/T32004; IEC61000-6-1, IEC61000-6-3

Note:Specifications are subject to change without advance notice.