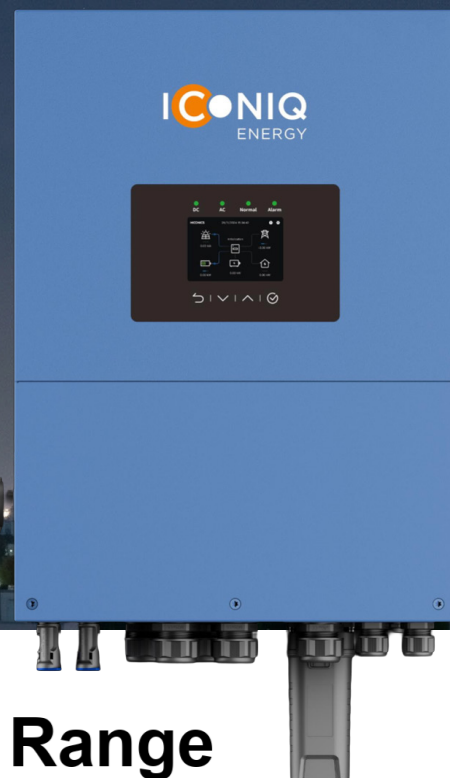




ICE Single Phase Hybrid Inverter Range

3 kW / 5 kW / 6 kW

SUPERIOR PERFORMANCE

- DC Input Current up to 18A
- Max Charge/Discharge Current 135A
- Up to 6KW PV Input per MPPT
- 200% EPS Output for 10s

INTEGRATED CONTROL

- Advanced Diesel Generator Compatibility
- Up to 6 Pcs Parallel Operation
- VPP Ready for Various Application

ADVANCED FUNCTIONALITY

- Shadow Scan for Optimal Production
- 6-Period TOD and Peak Shaving
- AC Coupling & Smart Circuit Functionality
- <10ms On-Grid to Off-Grid Transition

TRUSTED RELIABILITY

- IP66 Design for Outdoor Application
- AFCI Integrated for Higher Safety
- String Monitoring

MODEL	ICE-3.0-SPLV	ICE-3.6-SPLV	ICE-4.0-SPLV	ICE-4.0-SPLV	ICE-5.0-SPLV	ICE-6.0-SPLV	ICE-5.0-SPLV
PV Input							
Max. input power [W]	4800	5760	6400	7360	8000	9600	8000
Max. input voltage [V]	500	500	500	500	500	500	500
Rated input voltage [V]	370	370	370	370	370	370	370
MPPT voltage range [V]	125-425	125-425	125-425	125-425	125-425	125-425	125-425
Startup voltage [V]	125	125	125	125	125	125	125
Max. input current per MPPT [A]	18.0/18.0	18.0/18.0	18.0/18.0	18.0/18.0	18.0/18.0	18.0/18.0	18.0/18.0
Max. short circuit current per MPPT [A]	27.0/27.0	27.0/27.0	27.0/27.0	27.0/27.0	27.0/27.0	27.0/27.0	27.0/27.0
Number of MPPTs / Number of PV strings per MPPT	2 / 1+1	2 / 1+1	2 / 1+1	2 / 1+1	2 / 1+1	2 / 1+1	2 / 1+1
Battery data							
Battery type	Li-Ion / Lead-acid						
Max. charge/discharge power [W]	3000/3300	3600/4000	4000/4400	4600/5000	5000/5500	6000/6000	5000/5500
Battery voltage range [V]	40-60	40-60	40-60	40-60	40-60	40-60	40-60
Max. charge/discharge current [A]	70	90	100	110	120	135.0	120
AC Grid Side (On-grid)							
Rated output power [W]	3000	3600	4000	4600	5000	6000	5000
Max. output apparent power [VA]	3300	4000	4400	5000	5500	6600	5000
Max. input apparent power from grid [VA]	6000	7200	8000	9200	10000	10000	10000
Rated grid voltage [V]	220 / 230	220 / 230	220 / 230	220 / 230	220 / 230	220 / 230	220 / 230
Rated grid frequency [Hz]	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60	50 / 60
Rated output current [A]	13.6/13.0	16.0/16.0	18.2/17.4	20.9/20.0	22.7/21.7	27.3/26.1	22.7/21.7
Max. output current [A]	15.0/14.4	16.0/16.0	20.0/19.1	22.7/21.7	25.0/24.0	30.0/28.7	22.7/21.7
Max. input current from grid [A]	Li-Ion / Lead-acid						
Power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)						
I.THD [%]	<3@Rated power	<3@Rated power	<3@Rated power	<3@Rated power	<3@Rated power	<3@Rated power	<3@Rated power
Backup port							
Rated power [W]	3000	3600	4000	4600	5000	6000	5000
Max. output apparent power [VA]	3300	4000	4400	5000	5500	6600	5000
Rated output voltage [V]	220/230	220/230	220/230	220/230	220/230	220/230	220/230
Rated output frequency [Hz]	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Rated output current [A]	13.6/13.0	16.4/15.7	18.2/17.4	20.9/20.0	22.7/21.7	27.3/26.1	22.7/21.7
Max. output current [A]	15.0/14.4	18.2/17.4	20.0/19.1	22.7/21.7	25.0/24.0	30.0/28.7	22.7/21.7
Max. output peak power [W] / durement [s]	6000 (<10S)	7200 (<10S)	8000 (<10S)	9200 (<10S)	10000 (<10S)	12000 (<10S)	10000 (<10S)
Switching from grid connected mode to standalone mode [ms]	<10						
Output V. THD [%]	<3@Linear Load	<3@Linear Load	<3@Linear Load	<3@Linear Load	<3@Linear Load	<3@Linear Load	<3@Linear Load
Efficiency							
Max. efficiency [%]	97.2-97.6%						
Euro efficiency [%]	96.2-96.8%						
Protection							
Safety protection feature	LVRT, HVRT, Anti-islanding protection, AC output overvoltage / undervoltage protection, AC short circuit protection, AC overcurrent protection, Leakage current protection, Type II DC / AC surge protection, PV insulation resistance detection, PV reverse polarity protection, PV input overvoltage protection, Earthing fault protection, DC arcing detection and protection (Optional)						
System data							
Dimension (W*H*D) [mm]	<380*480*250						
Weight [kg]	<21KG						
Topology	Non-Isolated						
Operating temperature range [°C]	-20~+60(derating above +45)						
Relative humidity	0-100%(No condensing)						
Max. operation altitude [m]	2000						
Ingress protection	IP66						
Cooling method	Natural Convection						
User interface	LED, APP, LCD(Optional)						
Communication with BMS	CAN						
Typical noise emission [dB]	< 35						
Standard warranty [years]	5						
Certification	IEC/EN 62109-1&2, IEC 61000-6-1, IEC 61000-6-3, IEC 60529, IEC 60068, IEC 61683, G98/G99G100, CEI-021, IEC 63027						