



ICE Three Phase LV Hybrid Inverter Range

8 kW / 10 kW / 12 kW

- SiC Technology, Max. 98.2% Efficiency
- 150%-200% PV Input Power
- 3 MPPTs, PV Input Current 20A
- Executive Generator port, Max Generator Input Current 36.4A
- 2 Independent Battery ports for Mix use of Old & New Battery
- 166-400% Overload
- 200-480% Grid Input Power, Max 24 kW
- 6 Units in Parallel

Model Name	D5K-TL	D6K-TL	D8K-TL	D10K-TL	D12K-TL
Off-grid Output					
Rated Output Power	5 kW	6 kW	8 kW	10 kW	12 kW
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Peak Power & Duration	20kVA (10s)				
Max Output Current	8.3A	10A	13.3A	16A	20A
Rated Output Voltage	L/N/PE, 220V/230V/240V				
Switching Time	<10ms				
GEN Max. Current	25.8A	27.3A	30.3A	33.3A	36.4A
GEN Voltage Range	185~276V (P2N)				
On-grid Parameter					
Rated Output Power	5kW	6 kW	8 kW	10 kW	12 kW
Max. Output Power	5.5kVA	6.6kVA	8.8kVA	11kVA	13.2kVA
Max. Output Current	8.3A	10A	13.3A	16A	20A
Max. Input Power	17kVA	18kVA	20kVA	22kVA	24kVA
Rated Voltage	3/N/PE, 220/380Vac, 230/400Vac				
Grid Voltage Range	185~276V (P2N)				
Grid Frequency	50/60±5Hz				
PV Input					
Max. Input Power	10000Wp	12000Wp	16000Wp	18000Wp	18000Wp
Max. Input Voltage	800V				
Number of MPPT	3				
Max. Input String per MPPT	1/1/1				
MPPT Voltage Range, Starting Voltage	130~800V, 140V				
Max. Input Current	20A/20A/20A				
Short-Circuit Current	24A/24A/24A				
Battery Parameter					
Battery Type	Lithium-ion / Lead-Acid / Sodium-ion (optional)				
Number of Battery Input	2				
Battery Voltage Range	30~60V				
Battery Charging/Discharging Current	125A × 2				
Efficiency					
Max. Efficiency	98.2 %				
European Efficiency	97.7%				
Max. Battery Charging/Discharging Efficiency	95%				
General Data					
Size (W×H×D), Weight, Noise	465mm × 665mm × 165mm, 36kg, <45dB				
Operating Temperature	-25℃ ~ +60℃ (>45℃ Derating)				
Operating Altitude	4000m (>3000m Derating)				
Cooling Method	Intelligent Air Cooling				
Ingress Protection	IP65				
Topology	Isolation				
Communication Port	LED / WIFI / 4G / Bluetooth / RS485				
Protection	DC Switch; Reverse Polarity Protection; AC Overvoltage/Overcurrent/Short Circuit Protection; Anti-islanding Protection; Residual Current Monitoring; Insulation Resistance Detection; Surge Protection (DC Type II / AC Type III); AFCI (Optional); PID (Optional)				
Certification					
CE-LVD	IEC62109-1&2, IEC62040-1				
CE-EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29				
Grid	VDE-AR-N 4105; VDE 0126-1-1 EN 50549-1; G98, G100; CEI 0-21; AS/NZS4777.2; NRS 097-2-1				