

Black Wolf BW



- IP65 waterproof and dustproof design
- User-friendly HMI LCD design for easy configuration
- Built-in third generation SIC MOSEFET improves efficiency
- Accept dual AC inputs, utility power and generator power
- Built-in WiFi for mobile monitoring (App is available)
- Wide battery input range
- Built-in communication port for BMS (RS485)
- Parallel operation up to 4 units with common battery

Black Wolf BW Hybrid Inverter Selection Guide

MODEL	Black Wolf BW LV 30KW	Black Wolf BW 60KW
Maximum PV Input Power	39,000 W	78,000 W
Rated Output Power	30,000 W	60,000 W
Maximum Charging Power	30,000 W	60,000 W
GRID-TIE OPERATION		
PV INPUT (DC)		
Nominal DC Voltage / Maximum DC Voltage	360VDC / 500 VDC	720 VDC / 1000 VDC
Start-up Voltage / Initial Feeding Voltage	160 VDC / 175 VDC	320 VDC / 350 VDC
MPP Voltage Range	175 VDC ~ 450 VDC	350 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current	4 / 36A each	4 / 36A each
GRID-TIE OUTPUT (AC)		
Nominal Output Voltage	120 VAC (P-N) / 208 VAC (P-P)*	277 VAC (P-N) / 480 VAC (P-P)*
Output Voltage Range	96 - 138 VAC per phase	222 - 318 VAC per phase
Nominal Output Current	83 A per phase	73 A per phase
Power Factor	0.9 lag to 0.9 lead	
EFFICIENCY		
Maximum Conversion Efficiency (DC/AC)	96%	96.5%
CEC Efficiency@ Vnominal	95%	96%
OFF-GRID, HYBRID OPERATION		
PV INPUT (DC)		
Nominal DC Voltage / Maximum DC Voltage	360VDC / 500 VDC	720 VDC / 1000 VDC
MPP Voltage Range	175 VDC ~ 450 VDC	350 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current	4 / 36A each	4 / 36A each
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage	85 VAC per phase / 90 VAC per phase	180 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	85 - 138 VAC per phase	222 - 318 VAC per phase
Maximum AC Input Current (Phase/N)	109 A	95 A
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	120 VAC (P-N) / 208 VAC (P-P)	277 VAC (P-N) / 480 VAC (P-P)
Output Frequency	50 Hz / 60 Hz (auto sensing)	
Output Waveform	Pure sine wave	
Efficiency (DC to AC)	95%	96.5%
BATTERY & CHARGER		
Battery Voltage Range	160 ~500VDC	500 ~900VDC
Maximum Charging Current	65A	65 A
GENERAL		
PHYSICAL		
Dimension, D x W x H (mm)	268 x 580 x 900	268 x 580 x 900
Net Weight (kgs)	110	110
INTERACE		
Communication Port	RS-232, USB, DRY CONTACT, RS-485, Wi-Fi	
Intelligent Slot	Optional SNMP, MODBUS and GPRS	
ENVIRONMENT		
Humidity	0 ~ 100% RH	
Operating Temperature	-25°C to 60°C (>45°C derating)	
Altitude	0 ~ 1000 m**	
PROTECTION & CERTIFICATE		
Safety	UL 1741-2021 (UL1741SB), CSA 22.2.107.1, CEC	
Grid Connection Standard	IEEE 1547.1:2020; IEEE 1547:2018 & 1547a-2020, NEC 690.4B & NEC 705.4/6	
EMC	FCC Class A	
PV DC Switch - NEC 240.15	Yes	
Ground Fault Detection — NEC 690.5	Yes	
PV Rapid Shutdown Protection - NEC 690.12	Yes	
PV Arc Fault Detection — NEC 690.11	Yes	
PV Input Lightning Protection	Yes	
PV String Input Reverse Polarity Protection	Yes	N/A
Surge Protection	DC Type II / AC Type III	

*All figures may vary depending on different AC voltage and country requirements.

** Power derating 1% every 100 m when altitude is over 1000m

Product specifications are subject to change without further notice.