SUNNY HIGHPOWER PEAK3 125-US / 150-US







Cost effective

- Modular architecture reduces BOS and maximizes system uptime
- Compact design and high power density maximize transportation and logistical efficiency

Maximum flexibility

- Scalable 1,500 VDC building block with best-in-class performance
- Flexible architecture creates scalability while maximizing land usage

Simple install, commissioning

- Ergonomic handling and simple connections enable quick installation
- Centralized commissioning and control with SMA Data Manager

Highly innovative

- SMA Smart Connected reduces O&M costs and simplifies fieldservice
- Powered by award winning ennexOS cross sector energy management platform

SUNNY HIGHPOWER PEAK3 125-US / 150-US

A superior modular solution for utility power plants

The new Sunny Highpower PEAK3 is SMA's latest addition to a comprehensive portfolio of utility solutions. This 1,500 VDC inverter offers high power density in a modular architecture that achieves a cost-optimized solution for utility-scale PV integrators. With fast, simple installation and commissioning, the Sunny Highpower PEAK3 is accelerating the path to energization. SMA has also brought its field-proven Smart Connected technology to the PEAK3, which simplifies O&M and contributes to lower lifetime service costs. The PEAK3 utility system solution is powered by the ennexOS cross sector energy management platform, 2018 winner of the Intersolar smarter E AWARD.

echnical Data *	Sunny Highpower PEAK3 125-US	Sunny Highpower PEAK3 150-US
nput (DC)		
Aaximum array power	187500 Wp STC	225000 Wp STC
Aaximum system voltage		00 VDC
APP voltage range	710 V 1425 V	855 V 1425 V
APP trackers	1	80 A
Aaximum operating input current Aaximum input short-circuit current		325 A
Dutput (AC)		223 A
Nominal AC power	125000 W	150000 W
Aaximum apparent power	125000 VA	150000 VA
Dutput phases / line connections	3	/ 3-PE
Nominal AC voltage	480 V	600 V
Compatible transformer winding configuration	Wye-grounded	
Aaximum output current	151 A	
ated grid frequency	60 Hz	
Grid frequency / range	50 Hz, 60 Hz / -6 Hz +6 Hz	
ower factor at rated power / adjustable displacement	1 / 0.0 leading 0.0 lagging	
larmonics (THD)		<3%
fficiency	00 5 %	00 5 %
CEC efficiency (preliminary)	98.5 %	98.5 %
Protection and safety features Ground fault monitoring: Riso / Differential current		• / •
C reverse polarity protection		•
C short circuit protection	•	
Aonitored surge protection (Type 2): DC / AC	• / •	
rotection class / overvoltage category (as per UL 840)		, I / IV
General data		
Device dimensions (W / H / D)	770 / 830 / 444 mn	n (30.3 / 32.7 / 17.5 in.)
Device weight	85 kg (185 lbs)	
Operating temperature range	-25°C +60°C (-13°F +140°F)	
torage temperature range	-40°C +70°C (-40°F +158°F)	
Nudible noise emission (full power @ 1m and 25°C)	< 65 dB(A)	
nternal consumption at night	< 5 W	
opology	Transformerless	
Cooling concept	OptiCool (forced convection, variable speed fans)	
nclosure protection rating Aaximum permissible relative humidity (non-condensing)	Type 4X (as per UL 50E) 100%	
Additional information		100 /8
Aounting	Bac	k mount
DC connection	Terminal lugs - up to 600 kcmil CU/AL	
C connection	Screw terminals - up to 300 kcmil CU/AL	
ED indicators (Status/Fault/Communication)	•	
MA Speedwire (Ethernet network interface)	• (2 x RJ45 ports)	
Data protocols: SMA Modbus / SunSpec Modbus /	• / • / •	
Vebconnect	•	
DptiTrac Global Peak (shade tolerant MPP tracking) ID Mitigation Solution		•
ntegrated Plant Control / Q on Demand 24/7		/•
Dif-grid capable / SMA Fuel Save Controller compatible	• / •	
MA Smart Connected (proactive monitoring and service)		•
Certifications (pending as of June 2018)		
Certifications and approvals	UL 1741, UL 1998, IEEE 1547, CAN/CSA-C22.2 No.62109	
CC compliance	FCC Part 15, Class A	
Grid interconnection standards	UL 1741 SA - CA Rule 21, HECO Rule 14H, PRC-024-02	
dvanced grid support capabilities	L/HFRT, L/HVRT, Volt-VAr, Volt-Watt, Frequen	ncy-Watt, Ramp Rate Control, Fixed Power Factor
Varranty		
tandard		years
Optional extensions	10 / 15 / 20 years	

Toll Free +1 888 4 SMA USA www.SMA-America.com

SMA America, LLC

SHP_PEAK3.AU S182612 SMA assumes no liability fo