

# STAND-ALONE-SYSTEMS



ELTEK VALERE  
always **on**

# STAND-ALONE-SYSTEMS



Power Supply System	HPS 200 Wall 24/48/60V - 200A	HPS 400 Floor 24/48/60V-400A	HPS 760 with BVS 800 24/48/60V-760A
Loads distribution	integrated	integrated	included in BVS 800
Rectifier	HR 1300 / HR 1400	HR 1300 / HR 1400	HR1300 / HR1400
Max. rectifier number	8 (2 x HPU 5200)	16 (4x HPU 5200)	32 (8x HPU5200)
Control and monitoring unit	HPU-SM2 (-SM11 optional)	HPU-SM2 (-SM11 optional)	HPU-SM2 (-SM11 optional)
Input	1ph or 3ph with N	1ph or 3ph with N	1ph or 3ph with N
Voltage	3 x 120 V / 208 V, 3 x 230 V / 400 V	3 x 120 V / 208 V, 3 x 230 V / 400 V	3 x 120 V / 208 V, 3 x 230 V / 400 V
Max. current per phase	24 A <sup>3</sup>	48 A <sup>3</sup>	88 A <sup>3</sup>
Frequency	45-65 Hz	45-66 Hz	45-66 Hz
Power factor	$\lambda \approx 1$ , EN 61000-3-2	$\lambda \approx 1$ , EN 61000-3-2	$\lambda \approx 1$ , EN 61000-3-2
Output			
Voltage selectable	24 V / 48 V (HR1300) <sup>2</sup> 48 V / 60 V (HR1400)	24 V / 48 V (HR1300) <sup>2</sup> 48 V / 60 V (HR1400)	24 V / 48 V (HR1300) <sup>2</sup> 48 V / 60 V (HR1400)
Max. current	200 A	400 A	800 A
Psophometric noise	< 2 mV, ETSI 300 132-2/ITU-T	< 2 mV, ETSI 300 132-2/ITU-T	< 2mV, ETSI 300 132-2/ITU-T
General data			
Load feeders	14 x circuit breaker (expandable)	14 x circuit breaker (expandable)	18 x NH00 TPS (400A) closed or -27 x NH00 closed or -18 x NH1-3 open or -39 x NH00 open
Protection class	IP20, EN 60529	IP20, EN 60529	IP20, EN 60529
Ambient temperature	-20 to +60 °C derating > 45 °C	-20 to +60 °C derating > 45 °C	-20 to +60 °C derating > 45 °C
Weight			
Without modules	48 kg	76 kg	95 kg (HPS760) / 122 kg (BVS800)
Fully equipped	70 kg	118 kg	230 kg (HPS760) / 180 kg (BVS800)
Dimensions H x W x D (in mm)	670 x 600 x 400	1800 x 600 x 600	1800 x 600 x 600 (HPS760) 1800 x 600 x 600 (BVS800)
Options			
SNMP-adapter	yes	yes	yes
Modem-signalling	yes	yes	yes
Deep voltage discharge protection	yes	yes	yes
Temperature compensation	yes	yes	yes
Battery Cabinets (H x W x D in mm)	on request	integrated battery compartment, max. 3 levels per 100 Ah	on request

<sup>1</sup> can also be operated single-phase

<sup>2</sup> 24 V with suitable LVD

<sup>3</sup> if 3 ph

Right to make technical changes reserved

# STAND-ALONE-SYSTEMS



Power Supply System	Powerpack 1250 48/60V-1250A	SVS 48/60 V-2500 A
Loads distribution	depending on chosen version	depending on chosen version
Rectifier	PP 9500	RM 18000 / RM 11500
Max. rectifier number	9	10
Control and monitoring unit	HPU-SM12 (Smartpack optional)	HPU-SM3 (-SM12 optional)
Input	3 ph without N	3 ph without N
Voltage	400 V	400 V
Max. current per phase	148.5 A	280 A
Frequency	45–66 Hz	45–65 Hz
Power factor	$\lambda \approx 1$ , EN 61000-3-2	$\lambda > 0,94$
Output		
Voltage selectable	48 V, 60 V	24 V / 48 V / 60 V <sup>2</sup>
Max. current	1250 A	2500 A
Psophometric noise	< 2 mV, ETS 300 132-2/ITU-T	< 2 mV, ETSI 300 132-2/ITU-T
General data		
Load feeders	8 x NH3 closed or -19 x NH00 closed or -19 x NH1-3 open or -28 x NH00 open	8 x NH3 closed or -19 x NH00 closed or -19 x NH1-3 open or -28 x NH00 open
Protection class	IP20, EN 60529	IP20, EN 60529
Ambient temperature	-10 to +70 °C derating > 45 °C	-10 to +50 °C derating > 45 °C
Weight		
Without modules	GRS 135 kg / BVS 310 kg	454 kg
Fully equipped	GRS 135 kg	889 kg
Dimensions H x W x D (in mm)	2000 x 1500 x 600	2000 x 2100 x 600 (without mains distribution cabinet)
Options		
SNMP-adapter	yes	yes
Modem-signalling	yes	yes
Deep voltage discharge protection	yes	yes
Temperature compensation	yes	yes
Battery Cabinets (H x W x D in mm)	2000 x 900 x 600	–

<sup>1</sup> can also be operated single-phase

<sup>2</sup> 24 V with suitable LVD

<sup>3</sup> if 3 ph

# STAND-ALONE-SYSTEMS



Power Supply System	FP2 Systems 48V-600A	Outdoorsystems customized
Loads distribution	integrated	integrated
Rectifier	FP2 48V 2000W	FP2 48V 2000W
Max. rectifier number	16 (expandable on request)	4 (expandable up to 8)
Control and monitoring unit	Smartpack	Smartpack
Input	1ph or 3ph with N	1ph or 3ph with N
Voltage	3 x 230 / 400 V	3 x 230 V / 400 V
Max. current per phase	75 A <sup>3</sup>	25 A <sup>3</sup>
Frequency	45–65 Hz	45–66 Hz
Power factor	$\lambda \approx 1$ , EN 61000-3-2	$\lambda \approx 1$ , EN 61000-3-2
Output		
Voltage selectable	48 V	48 V
Max. current	600 A	150 A
Psophometric noise	< 2 mV, ETSI 300 132-2/ITU-T	< 2 mV, ETSI 300 132-2/ITU-T
General data		
Load feeders	up to 46 x circuit breaker 1 A–125 A	10 x circuit breaker (expandable)
Protection class	IP20, EN 60529	IP54, EN 60529
Ambient temperature	–40 to +70 °C derating > 45 °C	–33 to +45 °C
Weight		
Without modules	100 kg	227 kg
Fully equipped	130 kg	235 kg
Dimensions H x W x D (in mm)	2000 x 600 x 600	1940 x 770 x 805
Options		
SNMP-adapter	yes	yes
Modem-signalling	yes	yes
Deep voltage discharge protection	yes	yes
Temperature compensation	yes	yes
Battery Cabinets (H x W x D in mm)	4 x 150 Ah / 48 V integrable	integrated battery compartment, max. 2 levels per 100 Ah

<sup>1</sup> can also be operated single-phase

<sup>2</sup> 24 V with suitable LVD

<sup>3</sup> if 3 ph

# STAND-ALONE-SYSTEMS

## CONTROL- AND MONITORING UNITS



Type of control- and monitoring unit	HPU-SM11/-SM12	HPU-SM2/-SM3	Smartpack
System rated voltages	24 / 48 / 60 V	24 / 48 / 60 V	24 / 48 / 60 V
Buttons for data request and adjustments	X	X	X
Display			
Display of measured values	X	X	X
Display of error reports	X	X	X
Communication interfaces			
Internal (controller)	RS485 / CAN / RS232	RS 485	CAN
External (service laptop)	USB / RS232	RS 232	USB <sup>1</sup>
Remote alarm (Modem, SNMP, TCP/IP)	optional, upon request	X <sup>2</sup>	X <sup>2</sup>
Event storage	X	X	X
Characteristics Float charging / Boost charging	X	X	X
Load voltage regulation	X	X	X
Temperature compensation battery voltage	X	X	X
DC-Voltage / Current displays	X	X	X
Voltage monitors Battery/Load, Overvoltage/Undervoltage	X	X	X
Battery discharge protection control	X	X	X
Battery charging current limit	X	X	X
Battery availability test (total battery)	X	X	X
Battery symmetry monitoring	X	X	X
System data Serial number / rated voltage / others	X	X	X
LCD display / buttons			
Integrated into the module assembly	HPU-SM11	HPU-SM2	X
Externally built	HPU-SM12	HPU-SM3	-
Expandable by means of external signalling modules	X	X	X
Operating status signals			
LED	X	X	X
Telecommunications signals	2 up to 20 expandable	2 up to 20 expandable	6 expandable upon request
Faults			
System malfunction (centralized signal)	X	X	X
Rectifier fault	X	X	X
Redundancy monitoring	X	X	X
Battery/Load voltage fault	X	X	X
Battery availability test fault	X	X	X
Battery asymmetry	X	X	X
Battery deep discharge	X	X	X
Temperature fault	X	X	X
Mains failure	X	X	X
Voltage monitoring	X	X	X
Fuse monitoring	X	X	X
Others	X	X	X
Signalling of site-based signals (freely available)	optionally expandable up to 12	optionally expandable up to 14	6 expandable upon request
Internal clock / calendar	X	X	X
Potential free contacts			
Fault	X	X	X
Mains failure	X	X	X
Boost charging characteristic (ventilator control)	X	X <sup>2</sup>	-
Others	optionally expandable	optionally expandable	optionally expandable

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