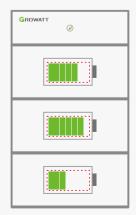
## **APX HV Battery**

- Flexible capacity options, 5kWh to 30kWh
- Module level energy optimization
- Support to mix new and old battery modules in one system
- Easy installation with modular and stacked design
- Long lifespan, 10 years warranty

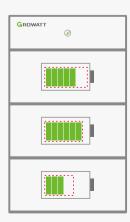
Battery Module (Modular Level Energy Optimizer)

Power Module

• Different SOC and SOH of the battery modules can be mixed in one system.



Grdwatt Ø







System Dorino     Image: Imag	System Model	APX 5.0P	APX 10.0P	APX 15.0P	APX 20.0P	APX 25.0P	APX 30.0P	
Netodoc prover Bettory ModuleIBettory ModuleII <td>System Demo</td> <td>Generer 0</td> <td>000007 Q</td> <td>6444441 0</td> <td></td> <td>Summer 0</td> <td>0</td>	System Demo	Generer 0	000007 Q	6444441 0		Summer 0	0	
module defairs / no. i Belans / no. i Belan	Power module	APX 98020-P1/APX 98034-P2						
Bettery nodele margeBettery modele energy123456Bring Caccoult56301030103010301	Number of power	1						
Number of battery incodes123456Energy Capacity5KWh10KWh15KWh20KWh25KWh30KWhMax Capacity5KWh7.5KW7.5KW7.5KW7.5KW7.5KWMax Capacity44KGa88K/Ga10KK/Ga10KK/Ga10KK/Ga10KK/GaMax Capacity Dower <sup>10</sup> 44KGa88K/Ga10KK/Ga10KK/Ga10KK/Ga10KK/GaMax Capacity Dower <sup>10</sup> 4600185/05Kmm600185/05Km600185/05Km6002185/125Cm6002185/125CmWeight6902185/05Kmm600185/05Km6002185/125Cm6002185/125Cm6002185/125CmWeight6002185/05Kmm600185/05Km6002185/125Cm6002185/125CmWeight6002185/05Kmm6002185/125Cm6002185/125Cm6002185/125CmWeight6002185/05Kmm6002185/125Cm6002185/125Cm6002185/125CmMether Jung Babecton5555Inges Babecton5555Status Jupp65555Colong65655Mando555555Optional Status Jupp65656Colong656565Mando6565655Optional Status Jupp656565Mando6565656<		APX 5.0P-B1						
Integry CapacitySkWn10kWn15kWn20kWn26kWn36kWnMick output power*44K66SkW7.5kW7.5kW7.5kWMick output power*44K66SkW10kK6510kW6510kW65Perk output power*44K66SkW12kWo10kW20kK65Perk output power*44K66SkW12kWo10kW20kK65Perk output power*690185056m690185056m690185156m69021851250mVerk in690185056m690185056m6901851565m69021851250mVerk in690185056m690185056m690185056m69021851250mVerk in690185056m690185056m690185056m69021851250mVerk in690185056m690185056m690185056m69021851250mVerk in690185056m690185056m690185056m69021851250mVerk in690185056m690185056m690185056m69021851250mVerk in690185056m690185056m69021851250m69021851250mVerk in690185056m690185056m69021851250m69021851250mVerk in690185056m690185056m69021851250m69021851250mVerk in690185056m690185056m69021851250m69021851250mVerk in690185056m690185056m69021851250m69021851250mVerk in690185056m690185056m69021851250m69021851250mVerk in690185056m690185056m690185056m690185056mVerk in690185056m <td>Battery module energy</td> <td colspan="7">5kWh</td>	Battery module energy	5kWh						
Integry CapacitySkWn10kWn15kWn20kWn26kWn36kWnMick output power*44K66SkW7.5kW7.5kW7.5kWMick output power*44K66SkW10kK6510kW6510kW65Perk output power*44K66SkW12kWo10kW20kK65Perk output power*44K66SkW12kWo10kW20kK65Perk output power*690185056m690185056m690185156m69021851250mVerk in690185056m690185056m6901851565m69021851250mVerk in690185056m690185056m690185056m69021851250mVerk in690185056m690185056m690185056m69021851250mVerk in690185056m690185056m690185056m69021851250mVerk in690185056m690185056m690185056m69021851250mVerk in690185056m690185056m690185056m69021851250mVerk in690185056m690185056m69021851250m69021851250mVerk in690185056m690185056m69021851250m69021851250mVerk in690185056m690185056m69021851250m69021851250mVerk in690185056m690185056m69021851250m69021851250mVerk in690185056m690185056m69021851250m69021851250mVerk in690185056m690185056m69021851250m69021851250mVerk in690185056m690185056m690185056m690185056mVerk in690185056m <td>Number of battery</td> <td>1</td> <td>2</td> <td></td> <td></td> <td>5</td> <td>6</td>	Number of battery	1	2			5	6	
Peck output power*2460/05800/05100/05100/05100/05Max output power*22,5kW5kW7,5kW10kW12,5kW15kWPeck output power*2440/05860/05120/05106/05200/05200/05Peck output power*2440/05860/05120/05106/05200/05200/05Demain (MUR)H*3690/185/950mm690/185/950mm690/185/1250mm690/2185/1250mm690/2185/1250mmWeight690/185/950mm690/185/950mm690/185/1250mm690/2185/1250mm690/2185/1250mmMergin for delay640/0118ig168ig201/0321/g321/gMergin for delay640/0168ig168ig201/0321/g321/gMergin for delay640/0168ig600/185/1250mm600/185/1250mm600/185/1250mmMergin for delay640/0168ig600/185/1250mm600/185/1250mm600/185/1250mmMergin for delay640/0500/185/1250mm500/185/1250mm500/185/1250mmPeck for delay600/185/1250mm500/185/1250mm500/185/1250mm500/185/1250mmMergin for delay600/185/1250mm500/185/1250mm500/185/1250mm500/185/1250mmMergin for delay600/185/1250mm600/185/1250mm600/185/1250mm500/185/1250mmMergin for delay600/185/1250mm600/185/1250mm600/185/1250mm600/185/1250mmMergin for delay600/185/1250mm600/185/1250mm600/185/1250mm600/185/1250mmMergin for delay<		5kWh	10kWh	15kWh	20kWh	25kWh	30kWh	
Max. output power*32.5kW5kW7.5kW10kW12.6kW15.kWPeak output power*3440K6888K608128K608168K60828K60828K608Dimension (WDRH)*36900185/050mm6900185/056mm6900185/1550mm6900185/1550mm6900185/1550mmVeight68kg18kg18kg28kg21kg27kg321kgVeight68kg18kg18kg6900185/1550mm6900185/1550mm6900185/1550mm6900185/1550mmVeight68kg18kg18kg68kg21kg27kg321kgPerfore68kg18kg16kg20kg32kgPerfore68kg18kg68kg18kg68kg18kgPerfore68kg18kg68kg18kg68kg18kgPerfore68kg18kg68kg18kg68kg18kgPerfore68kg18kg68kg18kg68kg18kgPerfore68kg18kg68kg18kg18kg18kgPerfore68kg18kg18kg18kg18kg18kgPerfore68kg18kg18kg18kg18kg18kg18kgPerfore68kg18kg18kg18kg18kg18kg18kgPerfore68kg18kg18kg18kg18kg18kg18kgPerfore68kg18kg18kg18kg18kg18kg18kgPerfore68kg18kg18kg18kg18kg<	Max. output power*1	2.5kW	5kW	7.5kW	7.5kW	7.5kW	7.5kW	
Peck output powert**44W.dds84W.dds12W.dds12W.dds12W.dds12W.dds20W.dds20W.dds20W.ddsDimension (WDM)**690185/660mm690185/050mm6901185/1250mm6901185/1250mm6901185/1250mm6901185/1250mmWeight680g118ig168ig218ig271ig321igPrintering outpage more temes printering outpage more temes printering outpage more temes printering outpage more2000 (159/1250mm)321igPrintering outpage more temes printering outpage more 	Peak output power*1		8kW,60s	10kW,60s	10kW,60s	10kW,60s	10kW,60s	
Dimension(WD/H)**690(185/956mm690(185/956mm690(185/1250mm690(2185/1250mmWeight66ig118ig168ig218ig271ig321kgInterne phase shore5500000000000000000000000000000000000	Max. output power* <sup>2</sup>	2.5kW	5kW	7.5kW	10kW	12.5kW	15kW	
Weight68kg118kg168kg218kg271kg321kgNettinge phase system $<$	Peak output power* <sup>2</sup>	4kW,60s	8kW,60s	1.2kW,60s	16kW,60s	20kW,60s	20kW,60s	
Notining loading entry     660V       Cpacing voltage ange prime phase system)     600V~980V       Battery type     600V~980V       Battery type     Cobatt Free Lithium Iron Phosphote (LFP)       Inses Protection     1P66       Instaliation     10°C - 50°C       Relative humidity     5%~95%       Cooling     Notruot       Attrude     4000m       DOD     93%       Varianty     0.990/18/225mm       Domenic/NDMI     Attract       Attrude     4000m       DOD     93%       Communication part     4000m       DOD     690/18/225mm       Weight     Attract       Communication part     264       Monting parameters     34A.605       Monting parameters     34A.605       Monting parameters     SC/L, System voltage, current, cell voltage, cell temperature, PCBA temperature       Nomind energy     SWM       Nomind energy     SWM       Nomind energy     SWM       Nomind energy     SWM       Nomind energy     SWM  N	Dimension (W/D/H)* <sup>3</sup>	690/185/660mm	690/185/955mm	690/185/1250mm	690/185/1545mm	690*2/185/1250mm	690*2/185/1250mm	
Notining loading entry     660V       Cpacing voltage ange prime phase system)     600V~980V       Battery type     600V~980V       Battery type     Cobatt Free Lithium Iron Phosphote (LFP)       Inses Protection     1P66       Instaliation     10°C - 50°C       Relative humidity     5%~95%       Cooling     Notruot       Attrude     4000m       DOD     93%       Varianty     0.990/18/225mm       Domenic/NDMI     Attract       Attrude     4000m       DOD     93%       Communication part     4000m       DOD     690/18/225mm       Weight     Attract       Communication part     264       Monting parameters     34A.605       Monting parameters     34A.605       Monting parameters     SC/L, System voltage, current, cell voltage, cell temperature, PCBA temperature       Nomind energy     SWM       Nomind energy     SWM       Nomind energy     SWM       Nomind energy     SWM       Nomind energy     SWM  N	Weight	68kg	118kg	168kg	218kg	271kg	321kg	
Centry voltage range (these phase splent)     600V ~ 980V       Batter type     Cobatt Free Lithium Iron Phosphate (LFP)       Ingress Rotection     IP66       Instatiation     IP60       Relative humidity     Cobatt Free Lithium Iron Phosphate (LFP)       Relative humidity     IP60       Cooling annobient Emperation     IP60       Relative humidity     IP60       Cooling Altitude     S%~05%       Cooling Altitude     SMOUTON       DOD     SMOUTON       Mattry Block     SMOUTON       DoD     S%       DoD     SMOUTON       Donersion(WDH)     APX 98020-P1       Mediation point     SAPX 98020-P1       Mediating pointeriet     SAPX 98020-P1 <td>Nominal voltage</td> <td>-</td> <td></td> <td>- 65</td> <td></td> <td></td> <td>-</td>	Nominal voltage	-		- 65			-	
Battery type     Cobatt Free Lithium Iron Phosphate (LFP)       Inges Rotection     IP66       Instaliation     Wait-mounted or Floor Installation* <sup>4</sup> Operating ambient Perpetating ambient Perpetating ambient     -10°C – 50°C       Relative humidity     -10°C – 50°C       Relative humidity     5%~95%       Cooling     Natural       Attrude     S4000m       DDD     90%       Waronty     000 – 90%       Domension(WDIH)     APX 98020-P1       Demension(WDIH)     APX 98020-P1       Communication poot     CAN/R5485       Communication poot     26A       Maximum current     13A       Peak current     26A       Attrude     26A       Battery padule     APX 9.040s       Maximum current     13A       Batkery padule     APX 9.040s       Nominol energy     Story Store       Nominol energy     APX 9.060s       Nominol energy     Story Store       Nominol energy     340       Operating voltage range     340       Operating voltage range	Operating voltage range							
Initialization   Wall-mounted or Floor Installation*4     Operating ambient Relative hundity   -10°C - 50°C     Relative hundity   5%~95%     Cooling   Natural     Attitude   34000m     DDD   4000m     DDD   -0°C     Warranty   0     Dmenson(WDA)   APX 98034-P2     Dmenson(WDA)   690/185/295mm     Verget module   APX 98034-P2     Dmenson(WDA)   690/185/295mm     Verget module   10 verget     Dmenson(WDA)   26A     Maximum curent   13A   26A     Reak curent   20A,60s   34A,60s     Montoing parameters   SOC, System voltage, current, cell voltage.cli temperature     Reatry module   APX 9004,60s   34A,60s     Reatry module   APX 9004,60s   34A,60s     Nominal voltage   SWH   SWH     Nominal voltage   SWH   SWH     Nominal voltage   SWH   SWH     Nominal voltage   330-450V   SWH								
Cpecialing ambient   -10°C - 50°C     Relative hunkliky   5% - 95%     Cooling   Natural     Altitude   0     Altitude   4000°C     DOD   9%     Warranty   0     Dimension(WDM)   APX 98020-P1     Power module   APX 98020-P1     Approxematic   690/185/295mm     Dimension(WDM)   690/185/295mm     Weight   0   6200/185/295mm     Weight   0   6200/185/295mm     Maximum curent   26A   34A,60s     Pack curent   300,60s   34A,60s     Monitoring parameters   SOC, System voltage, curent, cell voltage-cell temperature, PCBA temperature     Rattry module   APX 50,05 (Statem voltage, curent, cell voltage, cell temperature, PCBA temperature     Nominal voltage   SK/S   34A,60s     Nominal voltage   SK/S   34K     Operating voltage range   380-////380   380-///380	Ingress Protection							
Relative humidity   S%~95%     Cooling   Natural     Attitude   ≤4000m     Attitude   S4000m     DOD   0     Warranty   0     Power module   APX 98020-P1     Minder module   APX 98034-P2     Dimension(WDH)   APX 98030-P1     Veight   APX 98030-P1     Veight   690/185/295m     Veight   Communication port     Communication port   SC     Maximum curient   13A     Peak curient   26A     SOC, System voltage, current, cell voltag-cell temperature, PCBA temperature     Battery module   APX 5.UP     Nominal energy   SC     Nominal voltage   SK     Nominal voltage   SK     Operating voltage range   SK     Operating voltage range   SK	Installation							
Cooling   Natural     Altitude   ≤400     Altitude   9°     DOD   0     Warranty   0     Power module   APX 98020-P1     APX 98034-P2   APX 98034-P2     Power module   APX 98030-P1     Veight   0     Communication port   APX 98034-P2     Kaximum current   0     Addata   26A     Poak current   26A     SoC, System voltage, current, cell voltrogenture, PCBA temperature     Battery module   SOC, System voltage, current, cell voltrogenture, PCBA temperature     Nominal energy   SoC, System voltage, current, cell voltrogenture, PCBA temperature     Nominal voltage   SoC, System voltage, current, cell voltrogenture, PCBA temperature     Soch system voltage, current, cell voltrogenture, PCBA temperature   Soch system voltage, current, cell voltrogenture, PCBA temperature     Nominal voltage   Soch system voltage, current, cell voltrogenture, PCBA temperature     Nominal voltage   Soch system voltage, current, cell voltrogenture     Operating voltage range   Soch system voltage, current, cell voltage, current,	Operating ambient temperature							
Attitude   ≤4000m     DOD   90%     Warranty   0     Power module   APX 98020-P1     Power module   APX 98034-P2     Dimension(WD/H)   690/185/295mm     Dimension(WD/H)   690/185/295mm     Veight   690/185/295mm     Communication port   CANNR5485     Roakmum current   13A   26A     Peak current   26A   34A,60s     Monitoring parameters   SOC, System voltage, current, cell voltage, cell temperature, PCBA temperature     Bettery module   APX 98020, System voltage, current, cell voltage, cell temperature, PCBA temperature     Nominal energy   G   SW     Nominal voltage   38SV     Operating voltage range   330-450V	Relative humidity	5%~95%						
DOD   9000     Warranty   0     Power module   APX 98020-P1   APX 98034-P2     Dimension(WD/H)   APX 98034-P2   APX 98034-P2     Dimension(WD/H)   690/185/295mm   APX 98034-P2     Velight   0   690/185/295mm     Communication port   26A   26A     Maximum curient   13A   26A     Peak curient   20A,60s   34A,60s   34A,60s     Monitoring parameters   SOC, System voltage, current, cell voltage-cell temperature, PCBA temperature     Battery module   APX 5	-							
Warranty   ID y=x     Warranty   APX 98030-P1     Power module   APX 98030-P1     Dimension(WD/H)   APX 98030-P1     Dimension(WD/H)   Genovation 500/185/295mm     Weight   Genovation 2000/000000000000000000000000000000000	Altitude							
Power module     APX 98020-P1     APX 98034-P2       Dimension(W/D/H)     690/185/295mm     690/185/295mm       Weight     690/185/295mm     16kg       Communication port     CAN/RS485     26A       Maximum current     13A     26A       Peak current     20A,60s     34A,60s       Monitoring parameters     SOC, System voltage, current, cell voltage, cell temperature, PCBA temperature       Battery module     APX 5.0P-B1       Nominal energy     5kWh       Nominal energy     385V       Operating voltage range     330-450V	DOD							
Dimension(W/D/H)   690/185/295mm     Weight   16kg     Communication port   CAN/R5485     Maximum current   13A   26A     Peak current   20A,60s   34A,60s     Monitoring parameters   SOCC, System voltage, current, cell voltage, cell temperature, PCBA temperature     Battery module   APX 5.0P-B1     Nominal energy   SkWh     Nominal voltage   385V     Operating voltage range   330-450V								
Weight 16g   Communication port CAN/RS485   Maximum current 13A 26A   Peak current 20A,60s 34A,60s   Monitoring parameters SOC, System voltage, current, cell voltage, cell temperature, PCBA temperature   Battery module APX 5.0F-BI   Nominal voltage G   Nominal voltage range G   Operating voltage range G		APX 98020-P1 APX 98034-P2						
Communication port   CAN/RS485     Maximum current   13A   26A     Peak current   20A,60s   34A,60s     Monitoring parameters   SOC, System voltage, current, cell voltage, cell temperature, PCBA temperature     Battery module   APX 5.0P-B1     Nominal energy   Soc 34A,60s     Nominal voltage   Store 3     Operating voltage range   330-450V								
Maximum current13A26APeak current20A,60s34A,60sMonitoring parametersSOC, System voltage, current, cell voltage, current, rell temperature, PCBA temperatureBattery moduleAPX SUPER SUPPORTNominal energySoc SupportNominal voltageSSCOperating voltage rangeSSC	-							
Peak current 20A,60s 34A,60s   Monitoring parameters 34A,60s   Battery module SOC, System voltage, current, cell voltage, cell temperature, PCBA temperature   Nominal energy APX 5.0+B1   Nominal voltage Soc 385   Operating voltage range 330-450								
Monitoring parameters     SOC, System voltage, current, cell voltage, cell temperature, PCBA temperature       Battery module     APX 5.0P-B1       Nominal energy     SkWh       Nominal voltage     SkSV       Operating voltage range     S30-450V								
Battery module APX 5.0P-B1   Nominal energy 5kWh   Nominal voltage 385V   Operating voltage range 330-450V								
Nominal energy 5kWh   Nominal voltage 385V   Operating voltage range 330-450V	-							
Nominal voltage 385V   Operating voltage range 330-450V								
Operating voltage range 330-450V								
Weight 50kg								
Certification & Licensing IEC62619(Cell&Pack)/IEC60730/VDE2510-50/ CE/CEC/RCM/UN38.3/UL1973/UL9540A/FCC								

\* 1 When using the APX 98020-P1 the max. charge/discharge power of the battery system is 7.5 kW, the max. charge/discharge power of the system is also limited by the max. charge/discharge power of the inverter.

\*2 When using the APX 98034-P2, the max. charge/discharge power of the battery system is 15 kW, the max. charge/discharge power of the system is also limited by the max. charge/discharge power of the inverter. \*3 Include power module(APX 98020-P1/APX 98034-P2) and Battery Base

\*4 Floor installation requires extra base (W/D/H=690/185/50mm)

\*APX series battery has an EU model and a General model, the storage inverters sold in European countries only work with EU model APX battery

\*All rights reserved by SHENZHEN GROWATT NEW ENERGY CO., LTD. Subject to change without notice.